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GENERAL DESIGN MEMORANDUM

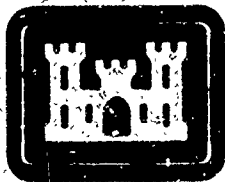
GULFPORT HARBOR

MISSISSIPPI

DESIGN MEMORANDUM NO. 1

APPENDIX C

GEOTECHNICAL REPORT



**US Army Corps
of Engineers**

Mobile District

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GENERAL DESIGN MEMORANDUM
GULFPORT HARBOR, MISSISSIPPI
APPENDIX C
GEOTECHNICAL REPORT



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GENERAL DESIGN MEMORANDUM
GULFPORT HARBOR, MISSISSIPPI
APPENDIX C
GEOTECHNICAL REPORT

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GENERAL DESIGN MEMORANDUM
GULFPORT HARBOR AND CHANNELS
GULFPORT, MISSISSIPPI

GEOTECHNICAL REPORT

General Geology: Gulfport and the Mississippi Sound are located in the Gulf Coastal Plain Physiographic Province and are underlain by consolidated and unconsolidated sediments that range in age from Holocene to Miocene. The oldest (Miocene) sediments that outcrop in the coastal area consist of consolidated greenish gray to mottled clays interbedded with sand and gravel zones. The sand and gravel strata contain water under artesian pressure and are a major aquifer in the coastal area. In onshore and nearshore areas the Miocene section is several hundred feet thick and thickens offshore to several thousand feet. The Pliocene age Citronelle Formation unconformably overlies the Miocene deposits. The Citronelle Formation consists predominantly of red to reddish orange and yellow gravelly sand. Interspersed in the gravelly sand are lenses of white, gray, orange, and brown sandy clay. The thickness of the Citronelle Formation varies from a few tens of feet in offshore areas, up to possibly 200 feet in the subsurface in the vicinity of Ship Island. Semi-consolidated to unconsolidated sediments (sand, silty sand, clayey sand and clay) of Pleistocene and Holocene age overlay the Citronelle Formation in the Mississippi Sound. These sediments vary from only a few feet thick nearshore to several tens of feet thick offshore near the barrier islands, and blanket the bottom of the Mississippi Sound. The Holocene sediments range in thickness from 10 to 30 feet and are generally unconsolidated. Semi-consolidated Pleistocene age sediments underlie Holocene sediments and may be encountered at depths of 20 to 50 feet below sea level.

Previous Investigations: In 1958 twenty-one (21) splitspoon borings designated SS-1 through SS-21 were completed along the Mississippi Sound portion of the channel. These borings were terminated at depths ranging from -33 to -38 MLLW.

In 1982, sixteen (16) splitspoon borings with designations GSC-1 through GSC-16 were completed along the channel to depths between -35 and -38 MLLW. Undisturbed sampling was accomplished in some of the borings based on a review of the field logs. Most of the undisturbed samples were very difficult to retrieve due to the extreme softness of the materials encountered. Notes on the field logs indicate that the samples were forwarded to the Waterways Experiment Station (WES) in Vicksburg, MS. Unfortunately, it appears from their records that the samples were never classified or tested.

Field logs of borings without dates are on file that record the results of fifteen (15) other splitspoon borings completed in the past. These were designated P-1 through P-8, and 1, 1A through 6. Locations of these borings are shown on the boring layout plan as accurately as they could be placed based on historical files. Note that some of these borings were drilled outside of the channel on lines perpendicular to its direction. Samples were taken at random intervals and depths. Results of lab tests on the samples returned are provided in the summary sheet on page 158.

In 1978, several vibracore borings were completed outside of the channel, using 20 foot long tubes, in separate areas within the sound as part of an investigation as to the feasibility of island construction. Borings on the island sites showed 4 to 11 feet of soft clay and silt over firmer material comprised mostly of sand. The consensus was that island construction was feasible based on the types of material to be dredged and the existing foundation conditions.

In 1977, twelve (12) additional vibracore borings were completed. These were spaced along the channel from the west end of Ship Island out into the Gulf of Mexico.

Results of the previous investigations including locations of borings, test data and boring logs are contained in this report along with the most recent data which was obtained in 1987. This report consolidates under one cover the Mobile District's information about the types and characteristics of the sediments surrounding the present and future Gulfport ship channel(s).

Geotechnical Investigation, 1987: In the summer of 1987 fifty-five (55) vibracore borings were performed in support of the ongoing study to improve the Gulfport channels. Vibracore consisted of twenty to thirty feet of four inch diameter plastic pipe held vertical and vibrated into the in situ soils to retrieve continuous core samples. The vibracore tubes, filled with continuous core samples were transported to the Mobile District's Exploration and Support Section. In the warehouse, three foot long sections were cut from selected tubes and sent with sample cores intact to the lab for determination of the unit weight of the material and other analyses. The remaining tubes were split so that soil samples could be taken at each change of material. These samples were forwarded to the Division Laboratory for tests which included moisture contents, specific gravity, Atterberg limits, sieve analyses, etc. Clays encountered in the split cores were tested with a pocket penetrometer and a torvane shear device to provide indications of the shear strength of the sample. The results of laboratory testing are summarized and presented in tabular form in pages 151 - 156.

Locations of the holes drilled are shown on the boring layout plan, plates 1 through 3. From the layout it can be seen that many borings were spaced along and within the existing channel. These were to compliment and verify information shown on boring logs from drilling performed in the past investigations. Several other borings were completed in a grid pattern around and within the bar channel at the west end of Ship Island. These were to gather information to be considered in the realigning of the channel in that area; in an effort to remove some of the turns.

Also as part of this investigation, an alternative alignment (see plates 1 through 3) for the main channel was investigated. Thirteen (13) vibracore borings were completed to investigate the marine sediments which would have to be dredged to realign the ship channel to pass through Loggerhead Shoal at Ship Island, or what is known as "hurricane cut". Expectedly, the waters became shallower near the shoal, and sand was found to be the material of the upper layer sediments. Fine-grained materials were found to be more common as the distance increased from the shoal, toward either the Mississippi Sound or the Gulf of Mexico. For more information regarding the soils of this alternate channel alignment, refer to the boring logs in this report designated GP-45-87 through GP-60-87.

Reference: A copy of the article "Soil Analysis and Dredging" by Alf H. Sorensen is available in the District Library for reference. Information presented therein is useful for interpreting the results of the soils investigations for dredging projects. It is published in Dredging and Dredged Material Disposal, by the American Society of Civil Engineers, 345 East 47th Street, New York, NY 10017-2398. (Raymond L. Montgomery and Jamie W. Leach editors).

Anchorage Basin: The vibracore borings GP-1-87, GP-61-87, and GP-82-87 were drilled along the channel centerline within the anchorage basin. The soils encountered included soft black and gray clays of high plasticity (CH), firm gray clayey sand (SC), firm silty clay (CL), and poorly graded medium to fine grained sand (SP). Information on the boring logs indicates that a large portion of the material within the basin will consist of firm clays, clay-sands, and sands. Therefore, it's possible that the material down to elevation -40 MLLW might be suitable for use as hydraulic fill in some cases.

Gulfport Channel, Mouth of Harbor to Ship Island: Thirteen (13) borings were completed in the channel between the mouth of the harbor and Ship Island. These were designated GP-2-87 through GP-14-87. The predominant soils encountered were plastic clays (CH), poorly graded sands (SP), and silty sands (SM). Occasional pockets of clayey sands (SC) and silty clays (CL) were also encountered.

From the harbor to the Gulf Intracoastal Waterway it's typical to find six to eight feet of the clay overlying the sandy soils (SP & SM), although, along some stretches of the channel no sand was encountered down to the maximum project cut of -40 MLLW. Toward Ship Island the upper sediments are composed almost entirely of sand and silty sand, as can be seen on the soil profiles. Within the Mississippi Sound portion of the channel, the average in situ densities for the clays and sands tested were found to be 87 pcf and 126 pcf, respectively. Most of the clays encountered were soft to very soft, however, firm (CH) was encountered in borings GP-4-87 and GP-5-87. Sandy soils encountered ranged from loose to dense in place.

Ship Island Pass, West end of Ship Island: At least sixteen (16) borings were completed outside of the existing channel which navigates Ship Island Pass.

The fine-grained soils of the pass have an average in situ density of 92 pcf and include plastic clays (CH), clayey silty sands (SC), and silts (ML). The sandy soils average 126 pcf and include poorly graded sand (SP), and silty sand (SM).

Most of the clay material is very soft or soft, although a few layers of firm SC material was encountered, see boring logs GP-19-87, GP-21-87, and GP-26-87.

Gulfport Channel Beyond Ship Island, Gulf of Mexico. Seven (7) borings were completed along the channel alignment in the Gulf of Mexico. From the soil profiles it can be seen that the upper layer sediments, down to the maximum project out of -42 MLLW consist almost entirely of soft gray plastic clay (CH). This material averages 87 pounds per cubic foot in situ.

General Summary. All materials encountered can be dredged by hydraulic cutterhead dredge.

The existing sideslopes are quite variable in the Gulfport channel, ranging from 1V:3H to 1V:16H. It's recommended that the latest channel surveys be reviewed closely, and that these variations be considered in computation of quantities and in drafting contract plans.









The majority of the clay soils existing in the harbor and channel down to the maximum project cut do not appear to have characteristics that would be conducive to clay ball formation. Such judgement is based on the criteria given in the paragraph 4.1.3 of the reference article described this report ("Soil Analysis and Dredging"). Fifteen (15) of the 38 borings completed in the Mississippi Sound part of the channel, in 1987, encountered clays with characteristics similar to those identified by the author as being good for clay ball formation.

Sands in the bar portion of the proposed alignment passing the west end of Ship Island might be utilized for beach nourishment. The majority of the sand grains fit in a narrow size range between 0.1mm and 0.4mm, which in the Unified Soil Classification System is characteristic of a poorly graded, fine-grained sand (SP).








BORING LOGS

LEGEND

COARSE-GRAINED SOILS - MORE THAN
HALF OF MATERIAL IS LARGER THAN
NO. 200 SIEVE SIZE

- GW  WELL GRADED GRAVELS OR
GRAVEL-SAND MIXTURES,
LITTLE OR NO FINES
- GP  POORLY GRADED GRAVELS
OR GRAVEL-SAND MIXTURES,
LITTLE OR NO FINES
- GM  SILTY GRAVELS, GRAVEL-
SAND-SILT MIXTURES
- GC  CLAYEY GRAVELS, GRAVEL-
SAND-CLAY MIXTURES
- SW  WELL GRADED SANDS OR
GRAVELLY SANDS, LITTLE
OR NO FINES
- SP  POORLY GRADED SANDS OR
GRAVELLY SANDS, LITTLE
OR NO FINES
- SM  SILTY SANDS, SAND-SILT
MIXTURES
- SM-H SAME AS ABOVE WITH HIGH
LIQUID LIMIT
- SC  CLAYEY SANDS, SAND-CLAY
MIXTURES
- SC-H SAME AS ABOVE WITH HIGH
LIQUID LIMIT

FINE-GRAINED SOILS - MORE THAN HALF
OF MATERIAL IS SMALLER THAN NO. 200
SIEVE SIZE

- ML  INORGANIC SILTS AND VERY
FINE SANDS, ROCK FLOUR.
SANDY SILTS OR CLAYEY SILTS
WITH SLIGHT PLASTICITY
- MH  INORGANIC SILTS, MICACEOUS
OR DIATOMACEOUS FINE SANDY
OR SILTY SOILS, ELASTIC
SILTS
- OL  ORGANIC SILTS AND ORGANIC
SILT-CLAYS OF LOW
PLASTICITY
- OH  ORGANIC CLAYS OF MEDIUM TO
HIGH PLASTICITY, ORGANIC
SILTS
- CL  INORGANIC CLAYS OF LOW TO
MEDIUM PLASTICITY,
GRAVELLY CLAYS, SANDY
CLAYS, SILTY CLAYS,
LEAN CLAYS
- CH  INORGANIC CLAYS OF HIGH
PLASTICITY, FAT CLAYS
- PT  PEAT AND OTHER HIGHLY
ORGANIC SOILS

NOTES:



NO SAMPLE OR RECOVERY

DUAL CLASSIFICATIONS, E.G. SP-SM, GP-GM, ML-CL
AND SM-SC, WILL BE SHOWN BY PLACING BOTH SYMBOLS
SIDE BY SIDE.

ABBREVIATIONS

ACCUM.	AT	EST.	ESTIMATE, ESTIMATED
ALT.	ACCUMULATED	EXCL.	EXCLUDING
ANG.	ALTERNATING	EXTR.	EXTREMELY
APPROX.	ANGULAR		
ARGILL.	APPROXIMATE, APPROXIMATELY	F.	FINE, FINELY
AUG.	ARGILLACEOUS	Fe	IRON
AVG.	AUGER	FERR.	FERRUGINOUS
	AVERAGE	FIS.	FISSE
		FLD.	FILLED
B.A.	BASE OF ALLUVIUM	FM.	FORMATION
BSL.	BARREL	FOLIA.	FOLIATION
BDD.	BED, BEDDED, BEDDING	POS.	POSSIL, FOSSILIFEROUS
EDR.	BEDROCK	P.R.	FLUID RETURN
BENT.	BENTONITIC	FRAC.	FRACTURE
BGE.	BEDGE	FRAG.	
B.I.	BREAKAGE INTERVAL	FRAGS.	FRAGMENT (S)
BKY.	BLOCKY	F/T	FISHTAILED
BL.	BLACK, BLACKISH		
BLD.	BOULDER	GEN.	GENERALLY
B.O.H.	BOTTOM OF HOLE	GLAU.	GLAUCONITE, GLAUCONITIC
BR.	BROWN, BROWNISH	GR.	GRAY, GRAYISH
EREC.	BRECCIATED	GRA.	GRAIN, GRAINED
BRK.	BROKEN, BREAKAGE	GRAD.	GRADATIONAL
		GRN.	GREEN, GREENISH
C.	COARSE	GRT.	GROUT
CAL.	CALCITE, CALCAREOUS	GVL.	GRAVEL, GRAVELLY
CARB.	CARBONACEOUS	GYP.	GYPSEUM
CAV.	CAVITY	G.W.	GROUNDEWATER
CSL.	COBBLE		
C.D.	CORRECTED DEPTH	H/A	HIGH ANGLE
CEM.	CEMENT	H/S	HAMMER BREAK
CHT	CHERT	HD.	HARD
CIRCLE.	CIRCULATION	HI.	HIGH, HIGHLY
CLY.	CLAYEY	HLD.	HEALED
CMT'D	CEMENTED	HMR.	HAMMER
CNTR.(S)	CONCENTRATION(S)	HOR.	HORIZONTAL
COMP	COMPACT	HYD.	HYDRAULIC
CONC	CONCRETE		
CONCR.	CONCRETIONS	INCL.	INCLUDING, INCLUDED
CONCL.	CONGLOMERATE	INDT	INDURATED
CONT	CONTINUED	INIT	INITIAL, INITIALLY
CRS	CRUSBY	INTEDD	INTERBED, INTERBEDDED
CR'D	CRUSHED	INTLAM.	INTERLAMINATED
CTD.	COATED	IRR.	IRREGULAR, IRREGULARLY
D	DEPTH	JT.'S	JOINT, JOINTS
D	DENSE	JTD.	JOINTED
D.A.	DRILL ACTION		
DECOM.	DECOMPOSED	L/A	LOW ANGLE
DIAG.	DIAGONAL	LAM.	LAMINA, LAMINE,
DIS.	DISSEMINATED		LAMINATED
DK.	DARK	LAY.	LAYER
DOL.	DOLOMITE, DOLOMITIC	L.C.	LOST CORE
DRL.	DRILLING	L.D.W	LOST DRILL WATER
DSTG.	DISINTEGRATED	LEA.	LEACHED
D.T.	DRILL TIME	LIG.	LIGNITIC
D.W.L.	DRILL WATER LOSS	LIT	LITTLE
D.W.R.	DRILL WATER RETURN	L.L.	LIQUID LIMIT
		LN , LNS.	LENSE, LENSES
EL.	ELEVATION	LO.	LOOSE
ENC.	ENCOUNTERED	LS.	LIMESTONE

LG.	LIGHT	ETS.	ROOTS
MAS.	MASSIVE	SAP.	SAPROLITE
MAX.	MAXIMUM	SAT.	SATURATED
MECH.	MECHANICAL	SCAT.	SCATTEREDLY
MED.	MEDIUM	SCH (S)	SCHIST (GSE)
MIC.	MICACEOUS	SD.	SAND
MIN.	MINIMAL	SDY.	SANDY
MIN.	MINERALIZED	SH.	SHALE
	MINERALIZATION	SHY.	SHET
MIX.	MIXTURE	SHY.	SHALY
MOD.	MODERATE, MODERATE	SI.	SILT
MOT.	MOTTLED, MOTTLED	SIS.	SILTSTONE
MST.	MIST	SIY.	SILTY
MFL.	MATERIAL	SL.	SLIGHT, SLIGHTLY
MTX.	MATRIX	SLCS.	SILICEOUS
		SLICK.	SILICENIDE
N/A	NOT APPLICABLE	SL.	SHALL
N/B	NOT ENCOUNTERED	SO.	SOFT
NOD.	NODULE	SOL.	SOLUTION, SOLUTIONED,
N/R	NO RECOVERY		SOLUTIONING
NRM.	NARROW	SPG.	SPECIFIC GRAVITY
		SPT.	STANDARD PENETRATION TEST
OS.	OVERLAP (UNCLASSIFIED)		STANDARD SPLITSPOON
OC.	OBSERVED	SS.	SANDSTONE
OCC.	OCCASIONAL, OCCASIONALLY	ST.	STAIN, STAINED, STAINING
COL.	COLLITE, COLLITIC	STP.	STIFF
OP.	OPEN, OPENED	STR.	STRUCTURE
OR.	ORANGE	STR.	STRINGER
ORG.	ORGANIC,	STYL.	STYLOLITE, STYLOLITIC
		SUR.	SURFACED
PART.	PARTIALLY	TEXT.	TEXTURE
PCS.	PIECES	T.F.R.	TOP OF FIRM ROCK
PETRO.	PETROLEUM, PETROLIFEROUS	TH.	THIN
PHOS.	PHOSPHATE, PHOSPHOROUS	THK.	THICK
P.I.	PLASTICITY INDEX	TI.	TIGHT
PIT.	PIT, PITTED, PITTING	TM.	TAN, TANNISH
PKT (S)	POCKET	T.O.R.	TOP OF ROCK
P.L.	PLASTICITY LIMIT	TR.	TRACE
PLA.	PLATY	TRP.	TRIPOLI
PLAS.	PLASTIC	T.S.R.	TOP OF SOUND ROCK
PLN.	PLANE		
PNK.	PINK	U.L.	UNACCOUNTABLE LOSS
PR.	POORLY	UNACC.	UNACCOUNTABLE
PRD.	PREDOMINATELY	UNWEA.	UNWEATHERED
PRESS.	PRESSURE		
PROB.	PROBABLE, PROBABILITY	V/	VERY
P.T.	PRESSURE TEST	VERT.	VERTICAL
PTC.	PARTICLES	VGY.	VUGGY
PTG.	PARTING	W/	WITH
PUR.	PURPLE	WEA.	WEATHERED
		WHT.	WHITE
QTZ.	QUARTZ	W/H	WEIGHT OF HANGER
QTZ.	QUARTZITE	W.L.	WATER LEVEL
		W/R	WEIGHT OF ROD
REL.	RELE		
REC.	RECOVERED	X-EDD.	CROSS-EDDED
RECEM.	RECEMENTED	XL.	CRYSTAL
RD.	RED, REDDISH	XLH.	CRYSTALLINE
RND.	ROUND, ROUNDED		
R.Q.D.	ROCK QUALITY DESIGNATION	YEL.	YELLOW

DRILLING LOG		DIVISION		INSTALLATION		Hole No. GP- -87	
1. PROJECT GULFPORT SHIP CHANNEL		S.A.D		M.D.O.		SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station)		GULFPORT, MISSISSIPPI		10. SIZE AND TYPE OF BIT VIBRACORE TUBE			
3. DRILLING AGENCY		M.D.O.		11. DATUM FOR ELEVATION SHOWING (T.M. or M.S.L.)		M.L.L.W.	
4. HOLE NO. (As shown on drawing title and file number)		GP-1 -87		12. MANUFACTURER'S DESIGNATION OF DRILL		VIBRACORE	
5. NAME OF DRILLER		FULLER		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 2 UNDISTURBED -	
6. DIRECTION OF HOLE		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		14. TOTAL NUMBER CORE BOXES		-	
7. THICKNESS OF OVERBURDEN				15. ELEVATION GROUND WATER		N/A	
8. DEPTH DRILLED INTO ROCK				16. DATE HOLE		STARTED 7-19-87 COMPLETED 7-19-87	
9. TOTAL DEPTH OF HOLE 20.0' (EL. -52.4)				17. ELEVATION TOP OF HOLE		-32.4	
				18. TOTAL CORE RECOVERY FOR BORING		%	
				19. SIGNATURE OF INSPECTOR		BRYANT & JONES D.G.H.	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1 CORRECTION NO.	2 CORRECTION NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
-32.4			(ML) BLACK CLAYEY SILT (VERY SOFT)				
-34.4	2			266	1		
	4						
	6						
	8						
	10						
-42.4	10						
-42.9					2		
	12						
	14						
	16						
	18						
-52.4			(SF) LIGHT GRAY POOR-Y GRADED SAND (FIRM)				
				LAB TESTING			
				JAR CLASS. - S.D			
				1 (CH) - - -			
				2 SP NP NP NP, MA			

Hole No. GP-2-87

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
PROJECT		S.A.D		M.D.O.		OF 1 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI				10. SIZE AND TYPE OF BIT. VIBRACORE TUBE			
2. LOCATION (Coordinates of Holes) N 24° 48' 644 E 421, 25.2				11. DAYON FOR ELEVATION SHOWN (TUM or MLL)			
3. DRILLING AGENCY M.D.O.				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE			
4. HOLE NO. (As shown on drawing title and No number) GP-2-87				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES	
5. NAME OF DRILLER FULLER				15. ELEVATION GROUND WATER N/A		16. DATE HOLE	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				17. ELEVATION TOP OF HOLE -32.1		18. TOTAL CORE RECOVERY FOR BORING	
7. THICKNESS OF OVERBURDEN				19. SIGNATURE OF INSPECTOR BRYANT & JONES		D.G.H.	
8. DEPTH DRILLED INTO ROCK							
9. TOTAL DEPTH OF HOLE 5.6' (EL -37.7)							

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	3 CORE RECOVERY W & C.	DRILLER SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-32.1	0		(ML) BLACK CLAYEY SILT (VERY SOFT)			LAB. TESTING
-33.4	1			201	1	JAR GLASS PL P.
-33.9	2					1 (CH) - - -
-34.9	2.8					2 (SP-SM) - - -
-35.3	3		(SM) GRAY SILTY SAND w/ SOME WOOD FRAGS. (FIRM)	31	2	
-35.8	4					
-37.7	5.6		B.O.H			

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PROJECT GULFPORT SHIP CHANNEL HOLE NO.
GULFPORT, MISSISSIPPI GP-2-37

DRILLING LOG		DIVISION	INSTALLATION	Hole No. GP-3-87	
1. PROJECT GULFPORT SHIP CHANNEL		S.A.D.	M.D.O.	SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates of Station)		3. DRILLING AGENCY		10. SIZE AND TYPE OF BIT	
N 244,360 E 424,530		M.D.O.		VIBRACORE TUBE	
4. HOLE NO. (As shown on drawing title and site number)		5. NAME OF DRILLER		11. DATUM FOR ELEVATION THRU (Type of datum)	
GP-3-87		FULLER		MLLW	
6. DIRECTION OF HOLE		7. THICKNESS OF OVERBURDEN		12. MANUFACTURER'S DESIGNATION OF DRILL	
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				VIBRACORE	
8. DEPTH DRILLED INTO ROCK		9. TOTAL DEPTH OF HOLE		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	
		13.2' (EL. -40.5)		4-TUBE 1-JAR	
14. ELEVATION GROUND WATER		15. DATE HOLE		16. ELEVATION TOP OF HOLE	
N/A		7-20-87		-27.3	
17. TOTAL CORE RECOVERY FOR BORING		18. SIGNATURE OF INSPECTOR		19. SIGNATURE OF INSPECTOR	
1		BRYANT & JONES		D.G.H.	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	S. CORE RECOVERY %	SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-27.3			(ML)	186	1	SAMPLES 1, 2, 3 & 4 WERE CUT, SEALED & SENT TO S.A.D. LAB IN VIBRACORE TUBE
-30.3	3		(SM)	18	2	20.0 TO 212.0 WERE USUALLY CLASSIFIED WHILE CONTAINED IN CLEAR VIBRACORE TUBE.
-33.3	6		(SM)	22	3	LAB TESTING
-36.3	9		(SM)	22	4	SAMPLE CLASS 11 PL PL 1 Spg 1 (CH) 157.49 0.8 2.57 L.O.I. - 9.9, MA, HY 3 (CL) 26.17 9 2.62 MA, HY
-39.3	12		(M-L) GRAY SANDY SILT (CLAYEY) (FIRM)		5	
-40.5	13.2		EGH			

Sample #	Visual Classification and/or Remarks
1	Density taken @ El. 29.3 pcf = 26.9
2	El. 30.3-30.6 Dk. gray fat clay (CH) 30.6-31.3 Gray clayey sand (SC) 31.3-32.8 Tan poorly graded sand (SP) 32.8-33.3 Tan fat clay (CH) w/ a little sand. Density taken @ El. 32.3 Pcf. 97.4
3	Density taken @ El. 35.3 pcf = 103.3
4	Density taken @ El. 38.3 pcf = 105.7 El. 36.3-39.3 Total sample - Tan silty sand (SM)

Hole No. GP-4-87

DRILLING LOG		DIVISION	INSTALLATION	SHEET
		S.A.D	M.D.O.	1 OF 1 SHEETS
1. PROJECT GULFPORT SHIP CHANNEL			10. SIZE AND TYPE OF BIT VIBRACORE TUBE	
GULFPORT, MISSISSIPPI			11. DAYON FOR ELEVATION SHOWN (TSS & MSL)	
2. LOCATION (Coordinates or Station)			M.L.L.W.	
N. 240.930 E. 427.55			12. MANUFACTURER'S DESIGNATION OF DRILL	
3. DRILLING AGENCY			VIBRACORE	
M.D.O.			13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN	
4. HOLE NO. (As shown on drawing title and file number)			DISTURBED	
GP-4-87			UNDISTURBED	
5. NAME OF DRILLER			14. TOTAL NUMBER CORE BOXES	
FULLER			15. ELEVATION GROUND WATER	
6. DIRECTION OF HOLE			N/A	
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			16. DATE HOLE	
			STARTED 7-20-87 COMPLETED 7-20-87	
7. THICKNESS OF OVERBURDEN			17. ELEVATION TOP OF HOLE	
			-30.9	
8. DEPTH DRILLED INTO ROCK			18. TOTAL CORE RECOVERY FOR BORING	
			19. SIGNATURE OF INSPECTOR	
9. TOTAL DEPTH OF HOLE 20.0 (EL -50.9)			BRYANT & JONES. D.G.H.	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1. CORE RECOVERY BOX	2. CORE SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-30.9	0					
	2					
	4					
	6					
	8					
	10		(CH) GRAY FAT CLAY (FIRM)			
-40.9						
-41.4					1	SAMPLE #1 TORVANE-0.29 TSF PENETROMETER- 0.5 TSF
	12					
	14					
	16					
	18					
-50.9	20.0					B.O.H.

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PROJECT GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI

HOLE NO.
GP-4-87

DRILLING LOG		DIVISION	INSTALLATION	Hole No. GP-5-87		
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI		S.A.D	M.D.O.	SHEET 1 OF 1 SHEETS		
2. LOCATION (Continent or Station) N 76 33 E 429,999				10. SIZE AND TYPE OF BIT VIBRACORE TUBE		
3. DRILLING AGENCY M.D.O.				11. DAY ON FOR ELEVATION (BOTH TOP AND BOTTOM) M.L.L.W.		
4. HOLE NO. (As shown on drawing title and file number) GP-5-87				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE		
5. NAME OF DRILLER FULLER				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED 5 UNDISTURBED —		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				14. TOTAL NUMBER CORE BOXES —		
7. THICKNESS OF OVERBURDEN				15. ELEVATION GROUND WATER N/A		
8. DEPTH DRILLED INTO ROCK				16. DATE HOLE STARTED 7-20-87 COMPLETED 7-20-87		
9. TOTAL DEPTH OF HOLE 15.9' (E. -45.5)				17. ELEVATION TOP OF HOLE -29.6		
				18. TOTAL CORE RECOVERY FOR BORING		
				19. SIGNATURE OF INSPECTOR BRYANT & JONES D.G.H.		
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	1 CORE RECOVERY NO. e	2 CORE RECOVERY NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-29.6			(ML) BLACK CLAYEY SILT (VERY SOFT)			LAB. TESTING JAR CLASS 7.25-1.2
-31.6	2					1 (CH) 22
-32.1				185	1	2 (CH) 83
						3 (SM)
						4 (SP)
						5 (SM)
-34.6	4					
-35.6			(CH) GRAY FAT CLAY w/ SOME SHELL FRAGS (FIRM)			SAMPLE #2 TO 1.1E-0.21 TE = PENETROMETER - 0.7 TE F
-36.1	6			81	2	
-38.4	8					
-39.6	10		(SM) DARK GRAY SILTY SAND (CLAYEY) w/TRACE SHELL FRAGS (FIRM)			
-40.1						
-41.0						
-42.6	12		(SP) LIGHT GRAY POORLY GRADED SAND (FIRM)			
-43.1					1	
-43.9	14.3					
-44.4			(SM) DARK GRAY SILTY SAND (CLAYEY) (FIRM)		5	
-44.9						
-45.5	15.9					
			B.C.H			

Hole No. GP-6-87

DRILLING LOG		DIVIS	S.A.D	INSTALLATION	M.D.O.	SHEET 1 OF 1 SHEETS
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI			10. SIZE AND TYPE OF BIT VIBRACORE TUBE			
2. LOCATION (Coordinates or Station) N 234, 045 E 432.579			11. DATUM FOR ELEVATION SHOWN (TBM or MLLW) MLLW			
3. DRILLING AGENCY M.D.O.			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE			
4. HOLE NO. (As shown on drawing title and file number) GP-6-87			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 3 UNDISTURBED			
5. NAME OF DRILLER FULLER			14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER: N/A			
7. THICKNESS OF OVERBURDEN			16. DATE HOLE STARTED 7-20-87 COMPLETED 7-20-87			
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE -30.3			
9. TOTAL DEPTH OF HOLE 20.0 (EL. -50.3)			18. TOTAL CORE RECOVERY FOR BORING			
			19. SIGNATURE OF INSPECTOR BRYANT & JONES D.G.H.			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1 CORE NO. 1	2 CORE NO. 2	REMARKS (Drilling time, water level, depth of weathering, etc., if significant)
-30.3	0		(ML) BLACK CLAYEY SILT (VERY SOFT)			LAB. TESTING JAR CLASS 75 PASSING 200-SIEVE 1 (CH) 99 2 (CH) 87 3 - MA
-34.3	4			19C	1	
-34.8						
-37.2	6.9					
-40.3	10		(CH) GRAY FAT CLAY (SOFT)	86	2	SAMPLE #2 TORVANE - 0.25 T.S.F. PENETROMETER - 0.25 T.S.F.
-40.8						
-42.5	12.2					
-46.3	16		(S) LIGHT GRAY POORLY GRADED SAND (SILTY) (FIRM)		3	
-46.8						
-50.3	20.0					

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PROJECT GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI
HOLE NO. GP-6-87

DRILLING LOG		DIVISION	INSTALLATION	Hole No. GP- -87	
1. PROJECT GULFPORT SHIP CHANNEL		S.A.D	M.D.O.	SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station)		10. SIZE AND TYPE OF BIT VIBRACORE TUBE		11. STATUS FOR ELEVATION SHOWN (Top or Bottom)	
N 232 603 E 434 543		M.L.L.W.		12. MANUFACTURER'S DESIGNATION OF DRILL	
3. DRILLING AGENCY		VIBRACORE		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN	
M.D.O.		5		UNDISTURBED	
4. HOLE NO. (As shown on drawing title and file number)		GP-7-87		14. TOTAL NUMBER CORE BOXES	
5. NAME OF DRILLER		FULLER		15. ELEVATION GROUND WATER	
6. DIRECTION OF HOLE		N/A		16. DATE HOLE	
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		7-20-87		7-20-87	
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE		-30.9	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING		1	
9. TOTAL DEPTH OF HOLE		15.8 (EL. -46.7)		19. SIGNATURE OF INSPECTOR	
		BRYANT & JONES		D.G.H	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1 CORRECTION SHOW	2 CORRECTION SHOW	REMARKS (Drilling time, water loss, depth of overburden, etc., if significant)																														
-30.9	2		(ML) DARK GRAY CLAYEY SILT (VEF. SOFT)			LAB TESTING <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>JAR</th> <th>CLASS</th> <th>U</th> <th>PL</th> <th>PI</th> <th>% PASS</th> </tr> <tr> <td>1</td> <td>(CH)</td> <td>64</td> <td>55</td> <td>114</td> <td>99</td> </tr> <tr> <td>3</td> <td>(SM)</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>4</td> <td>(SC)</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>5</td> <td>(CH)</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table>	JAR	CLASS	U	PL	PI	% PASS	1	(CH)	64	55	114	99	3	(SM)	-	-	-	-	4	(SC)	-	-	-	-	5	(CH)	-	-	-	-
JAR	CLASS	U	PL	PI	% PASS																															
1	(CH)	64	55	114	99																															
3	(SM)	-	-	-	-																															
4	(SC)	-	-	-	-																															
5	(CH)	-	-	-	-																															
-33.9																																				
-34.4				200	1																															
-37.7	6.8		(CH) GRAY FAT CLAY (SOFT)		2	SAMPLE #2 TOR. ANE - 0.05 TEE PENET. METER - 0.0 TEE																														
-38.1																																				
-38.7																																				
-38.9																																				
-39.5			(SF) GRAY POORLY GRADED SAND (S-LY) (S-FV)		3	SAMPLE #4 TOR. ANE - 0.09 TEE PENET. METER - 0.4 TEE																														
-40.0																																				
-42.1	11.2		(CH) GRAY FAT CLAY W. LAYERS OF SAND (S-LY) (S-FV)		35	SAMPLE #5 TOR. ANE - 0.13 TEE PENET. METER - 0.5 TEE																														
-42.9																																				
-43.4																																				
-45.6	14		FAT CLAY W/ R.T. & SHELL FRAGS		59																															
-46.1																																				
-46.7	15.8		B.C.H.																																	

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PROJECT GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI

HOLE NO. GP-7-87

DRILLING LOG		DIVISION	INSTALLATION		Hole No. GP-8-87											
1. PROJECT GULFPORT SHIP CHANNEL		S.A.D	M.D.O.		SHEET 1 OF 1 SHEETS											
2. LOCATION (Coordinate or Station)		3. DRILLING AGENCY		4. SIZE AND TYPE OF BIT. VIBRACORE TUBE												
N 227 737 E 436 649		M.D.O.		11. DAYUM FOR ELEVATION SHOWN (TBM or BBL)												
5. HOLE NO. (As shown on drawing title and file number)		GP-8-87		M.L.L.W.												
6. NAME OF DRILLER		FULLER		12. MANUFACTURER'S DESIGNATION OF DRILL												
7. THICKNESS OF OVERBURDEN		8. DIRECTION OF HOLE		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN												
		VERTICAL <input checked="" type="checkbox"/> INCLINED <input type="checkbox"/> DES. FROM VERT.		14. TOTAL NUMBER CORE BOXES												
9. TOTAL DEPTH OF HOLE 14.7' (EL. -29.5)		10. DATE HOLE		15. ELEVATION GROUND WATER												
		STARTED 7-20-87 COMPLETED 7-20-87		N/A												
		17. ELEVATION TOP OF HOLE -14.8		18. TOTAL CORE RECOVERY FOR BORING												
		19. SIGNATURE OF INSPECTOR		D.G.H.												
		BRYANT & JONES														
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)										
-14.8			(M.L.)	147	1	SAMPLES 1, 2 & 3 WERE CUT, SEALED & SENT TO S.A.D. - AE VIBRACORE TUBE.										
-17.8			(V.L.)		2	2 C.O. TO 2.20 WERE VISUALLY CLASSIFIED WHILE CONTAINED IN CLEAR VIBRACORE TUBE.										
-20.8			(V.L.)	98	3	LAB TESTING										
-23.8			(EC)	57	4	1 (CH) - - - 75 2 (CH) - - - - 3 (CH) 74 22 52 - 4 - 54 16 33, MA, HY										
-26.3			(CH) GRAY FAT CLAY (SANDY)		5	SAMPLE #5 TOP 1.5-0.5 TEE PENETROMETER - 0.5 TEE										
-29.5			(F.P.N.)													
			E.O.H.													
<p>LABORATORY TESTING</p> <p>Visual Classification and/or Remarks</p> <table border="1"> <thead> <tr> <th>SAMPLE</th> <th>Visual Classification and/or Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>El. 14.8-17.8 Disturbed soft fat clay (CH) w/ some sand</td> </tr> <tr> <td>2</td> <td>17.8-20.8 Dk gray fat clay (CH) w/ a trace of sand</td> </tr> <tr> <td>3</td> <td>20.8-23.8 Density taken @ El. 22.8 pcf = 45.4 spg = 2.65</td> </tr> <tr> <td>4</td> <td>23.8-26.8 Density taken @ El. 25.6 pcf = 65.9 spg = 2.64</td> </tr> </tbody> </table>							SAMPLE	Visual Classification and/or Remarks	1	El. 14.8-17.8 Disturbed soft fat clay (CH) w/ some sand	2	17.8-20.8 Dk gray fat clay (CH) w/ a trace of sand	3	20.8-23.8 Density taken @ El. 22.8 pcf = 45.4 spg = 2.65	4	23.8-26.8 Density taken @ El. 25.6 pcf = 65.9 spg = 2.64
SAMPLE	Visual Classification and/or Remarks															
1	El. 14.8-17.8 Disturbed soft fat clay (CH) w/ some sand															
2	17.8-20.8 Dk gray fat clay (CH) w/ a trace of sand															
3	20.8-23.8 Density taken @ El. 22.8 pcf = 45.4 spg = 2.65															
4	23.8-26.8 Density taken @ El. 25.6 pcf = 65.9 spg = 2.64															

DRILLING LOG		DIVIS	INSTALLATION		Hole No. GP-9-87	
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI		S.A.D	M.D.O.		SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station)		N 225.46 E 439.36	10. SIZE AND TYPE OF BIT VIBRACORE TUBE		11. DAYUM FOR ELEVATION FROM (TBM or BBL)	
3. DRILLING AGENCY		M.D.O.	12. MANUFACTURER'S DESIGNATION OF DRILL		VIBRACORE	
4. HOLE NO. (As shown on drawing title and file number)		GP-9-87	13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		2	
5. NAME OF DRILLER		FULLER	14. TOTAL NUMBER CORE BOXES		2	
6. DIRECTION OF HOLE		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.	15. ELEVATION GROUND WATER		N/A	
7. THICKNESS OF OVERBURDEN			16. DATE HOLE		STARTED 7-20-87 COMPLETED 7-20-87	
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE		-32.3	
9. TOTAL DEPTH OF HOLE (4.3' (EL. -46.0))			18. TOTAL CORE RECOVERY FOR BORING		1	
			19. SIGNATURE OF INSPECTOR		BRYANT & JONES D.G.H.	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1. Core Recovery %	2. Sample No.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-32.3	0		(ML) BLACK CLAYEY SILT (VERY SOFT)			LAB. TESTING JAR CLASS 9, #38 1 (CH. 200 SIEVE 27 2 (SP), MA
-35.3	2			223	1	
-35.8						
-36.0	4		(SM) GRAY SILTY SAND (FIRM) W/ TRACE SHELL FRAGE			
-42.3	6			27	2	
-42.8						
-46.0	14					
			B.O.H.			

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PROJECT GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI HOLE NO. GP-9-87

DRILLING LOG		DATE	INSTALLATION	Hole No. GP-10-87	
PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI		S.A.D	M.D.O.	SHEET 1 OF 1 SHEETS	
LOCATION (Coordinates or Station) N 218.595 E 443.533		10. SIZE AND TYPE OF BIT VIBRACORE TUBE			
DRILLING AGENCY M.D.O.		11. DATUM FOR ELEVATION SHOWN (TBM or MLLW) MLLW			
HOLE NO. (As shown on drawing title) GP-10-87		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE			
NAME OF DRILLER FULLER		13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN 2			
DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES _____			
THICKNESS OF OVERBURDEN		15. ELEVATION GROUND WATER N/A			
DEPTH DRILLED INTO ROCK		16. DATE HOLE STARTED 7-20-87 COMPLETED 7-20-87			
TOTAL DEPTH OF HOLE 18.0' (EL -42.6)		17. ELEVATION TOP OF HOLE -29.6			
		18. TOTAL CORE RECOVERY FOR BORING _____			
		19. SIGNATURE OF INSPECTOR BRYANT & JONES D.G.H.			

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	1 CORE RECOVERED NO. e	2 CORE SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-29.6	1		(MH) DARK GRAY NORMAL C. SILT (VERY SOFT)			LAB TESTING JAR CLASS. 11 PL PL 1 (CH) 83275G-MA, HY 2 - MA SAMPLE #1 TORVANE-0.05 TSE PENETROMETER- C.O TSE =
-29.1	2					
-29.6	4					
	6					
-32.3	8.2		(EM) GRAY & BROWN SILTY SAND (CLAYEY) (FIRM)			
-36.6	10					
-37.1	12					
	14					
-42.6	18		B.O.H			

DRILLING LOG		DIVIS.	INSTALLATION		Hole No. GP-11-87	
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI		S.A.D	M.D.O.		SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station)		N 213.467 E 446.932	10. SIZE AND TYPE OF BIT		VIBRACORE TUBE	
3. DRILLING AGENCY		M.D.O.	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		M.L.L.W.	
4. HOLE NO. (As shown on drawing title) and file number		GP-11-87	12. MANUFACTURER'S DESIGNATION OF DRILL		VIBRACORE	
5. NAME OF DRILLER		FULLER	13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		DISTURBED 2-TUBE JAR UNDISTURBED	
6. DIRECTION OF HOLE		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.	14. TOTAL NUMBER CORE BOXES		—	
7. THICKNESS OF OVERBURDEN		—	15. ELEVATION GROUND WATER		N/A	
8. DEPTH DRILLED INTO ROCK		—	16. DATE HOLE		STARTED 7-20-87 COMPLETED 7-20-87	
9. TOTAL DEPTH OF HOLE 14.0 (EL. -47.9)		—	17. ELEVATION TOP OF HOLE		-33.9	
		—	18. TOTAL CORE RECOVERY FOR BORING		—	
		—	19. SIGNATURE OF INSPECTOR		BRYANT & JONES D.G.H	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	S CORE RECOVERY % W & C	NUMBER SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-35.9	0		(CH)	43	1	SAMPLE 1 & 2 WERE CUT SEALED & SENT TO S.A.D LAB IN VIBRACORE TUBE.
-36.9	1		(SM)	23	2	2 S.C. TO 2 S.C. WERE VISUALLY CLASSIFIED WHILE CONTAINED IN CLEAR VIBRACORE TUBE
-39.9	4		(SM) BROWNIE-GRAY SILTY SAND (FRV)			LAB TESTING JAR CLASS 2 - MA 3 (SP.SM)
-43.9	10					
-44.4	11				23	3
-47.9	14		BC -			

SAMPLE		LABORATORY TESTING	
#	Visual Classification and/or Remarks		
1	El. 33.9-34.9 Dk gray soft fat clay (CH) w/ trace of sand γcf = 75.9 LL=73 PL=23 PI=50		
	34.9-35.9 Dk gray soft fat clay (CH) w/ (SM) pockets		
	35.9-36.9 Gray clayey sand (SC) w/ wood Density taken @ El. 35.9		
2	36.9-37.4 Dk gray soft clayey sand (SC) w/ wood γcf=98.1		
	37.4-39.9 Brown silty sand (SM) w/ clay layers Density taken @ El. 39.5 γcf=98.1		

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PROJECT GULFPORT SHIP CHANNEL HOLE NO. GP-11-87
GULFPORT, MISSISSIPPI

Hole No. GP-12-87

DRILLING LOG		DIVISION	S.A.D.	INSTALLATION	M.D.O.	SHEET 1 OF 1 SHEETS
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI				10. SIZE AND TYPE OF BIT VIBRACORE TUBE		
2. LOCATION (Coordinates or Station) N 207.433 E 451.295				11. DAY OF YEAR FOR ELEVATION SHOWN (Y2000 = 001) M L L W		
3. DRILLING AGENCY M.D.O.				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE		
4. HOLE NO. (As shown on drawing title and file number) GP-12-87				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		
5. NAME OF DRILLER FULLER				14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DES. FROM VERT.				15. ELEVATION GROUND WATER N/A		
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -28.8		
9. TOTAL DEPTH OF HOLE 20.0 (EL. -48.8)				18. TOTAL CORE RECOVERY FOR BORING		
				19. SIGNATURE OF INSPECTOR BRYANT & JONES D.G.H.		

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1 CODE REMARKS REV	2 CODE SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-28.8			(ML) BLACK CLAYEY SILT (VERY SOFT)			LAB TESTING
-29.8						JAR CLASS W L P I P I
-30.3					1	1 (SC) - - -
-31.0	2.2					2 (SM) - - -
						3 (SM-SC) 22 15 7, MA, HY
						4 (SC) 40 16 24, MA, HY
-32.3			(SM) GRAY SILTY SAND (SOFT)		2	SAMPLE #2 TORVANE-0.15 TSF PENETROMETER- 0.25 TSF
-32.8	4					
	6					
-35.8	7		(SC) BROWNISH GRAY CLAYEY SAND (SOFT)			SAMPLE #3 TORVANE-0.08 TSF PENETROMETER- 0.4 TSF
-38.5						
-39.0	10			21	3	
-41.2	24		(CL) BROWN & GRAY SANDY CLAY (SILTY) (SOFT) W/TRACE WOOD FRAGS			SAMPLE #4 TORVANE-0.22 TSF PENETROMETER- 0.25 TSF
	14					
-44.6						
-45.1	16			34	4	
	18					
-48.8	20.0					E.C.T.

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PROJECT GULFPORT SHIP CHANNEL HOLE NO.
GULFPORT, MISSISSIPPI GP-12-87

Hole No. GP-3-87

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
PROJECT GULFPORT SHIP CHANNEL		S.A.D		M.D.O.		OP. 1 SHEETS	
LOCATION (Coordinate or Station)		N 205.190 E 452.512		10. SIZE AND TYPE OF BIT		VIBRACORE TUBE	
DRILLING AGENCY		M.D.O.		11. DATUM FOR ELEVATION SHOW (TBM - ME)		M.L.W.	
HOLE NO. (As shown on drawing title and file number)		GP-13-87		12. MANUFACTURER'S DESIGNATION OF DRILL		VIBRACORE	
NAME OF DRILLER		FULLER		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		2	
DIRECTION OF HOLE		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		14. TOTAL NUMBER CORE BOXES		—	
THICKNESS OF OVERBURDEN		—		15. ELEVATION GROUND WATER		N/A	
DEPTH DRILLED INTO ROCK		—		16. DATE HOLE		STARTED 7-20-87 COMPLETED 7-20-87	
TOTAL DEPTH OF HOLE		19.4 (EL. - 52.6)		17. ELEVATION TOP OF HOLE		-33.2	
				18. TOTAL CORE RECOVERY FOR BORING		1	
				19. SIGNATURE OF INSPECTOR		BRYANT & JONES	
						D.G.H.	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1. CORE NUMBER	2. SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-33.2	2		(SM) GRAY SILTY SAND (FIRM)			LAB TESTING JAR CLASS PL F 100 sieve 1 (SP) NP NP NP - MA 2 (CH) 56 16 40 55
-36.2						
-36.7	4				1	
-38.4	5.2					
	6					
	8					
	10		(CH) GRAY FAT CLAY (FIRM) W/TRACE M.O.C. FRAGS			
	12					
-46.2				27	2	SAMPLE #2 TOPVANE - 0.3 TSF PENETROMETER - 0.5 TSF
-46.7	14					
	16					
	18					
-52.6	19.4		B.C.H.			

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PROJECT GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI
HOLE NO. GP-3-87

Hole No. GP-14-87

DRILLING LOG	DIVISION	S.A.D.	INSTALLATION	M.D.O.	SHEET 1 OF SHEETS
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI			10. SIZE AND TYPE OF BIT VIBRACORE TUBE		
2. LOCATION (Coordinates of Station)			11. DATUM FOR ELEVATION BROWN (1985) MLLW		
3. DRILLING AGENCY M.D.O.			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE		
4. HOLE NO. (As shown on drawing 1110 and B.O.H. number) GP-14-87			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 3-TJEE, 2-JAR		
5. NAME OF DRILLER FULLER			14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DES. FROM VERY.			15. ELEVATION GROUND WATER N/A		
7. THICKNESS OF OVERBURDEN			16. DATE HOLE STARTED 7-20-87 COMPLETED 7-20-87		
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE -33.3		
9. TOTAL DEPTH OF HOLE 19.0' (EL. -52.3)			18. TOTAL CORE RECOVERY FOR BORING		
			19. SIGNATURE OF INSPECTOR BRYANT & JONES D.G.H.		

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1. CORE NUMBER	2. DEPTH SAMPLE NO.	REMARKS (Drilling time, water loss, depth of overburden, etc., if significant)
-33.3			(SP)	25	1	SAMPLE 1, 2 & 3 WERE CUT, SEALED & SENT TO S.A.D. LAB IN VIBRACORE TUBE.
-36.3	3		(SE)		*2	20.0 TO 29.0 WERE VISUALLY CLASSIFIED WHILE CONTAINED IN CLEAR VIBRACORE TUBE.
-39.3	6		(SE)	20	3	LAB. TESTING JAR CLASS LL PL PL 1 - MA - - - 2 - MA - - - 3 - MA - - - 4 (SC) 49 18 31 48 5 (CH) - - - 51
-42.3	9		(CH) GRAY FAT CLAY (SILTY) (SOFT)	37	4	SAMPLE #4 TOPVANE-0.19 TSF PENETROMETER-0.4
-44.5	12		(CH) GRAY FAT CLAY (SOFT)			* See also photo-log & analysis
-50.3	15		(CH) GRAY FAT CLAY (SOFT)	37	5	SAMPLE #5 TOPVANE-0.27 TSF PENETROMETER-0.4 T.S.F
-50.8						
-52.3	19		B.O.H.			

SEE LAB TEST ON SHT 2

Hole No. GP-15-87

DRILLING LOG		DIV.	INSTALLATION	SHEET
1. PROJECT GULFPORT SHIP CHANNEL		S.A.D	M.D.O.	1
2. LOCATION (Coordinate or Station)		OF 2 SHEETS		
GULFPORT, MISSISSIPPI		10. SIZE AND TYPE OF BIT VIBRACORE TUBE		
3. LOCATION (Coordinate or Station)		11. DAY OF ELEVATION SHOWN (TBM or ZED)		
N 203, 313 E 451, 187		MLLW		
4. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL		
M.D.O.		VIBRACORE		
5. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		
GP-15-87		1		
6. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES		
FULLER		—		
7. DIRECTION OF HOLE		15. ELEVATION GROUND WATER		
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		N/A		
8. THICKNESS OF OVERBURDEN		16. DATE HOLE		
—		7-20-87		
9. DEPTH DRILLED INTO ROCK		17. ELEVATION TOP OF HOLE		
—		-19.9		
10. TOTAL DEPTH OF HOLE		18. TOTAL CORE RECOVERY FOR BORING		
20.3 (EL. - 40.2)		3		
		19. SIGNATURE OF INSPECTOR		
		BRYANT & JONES		
		D.G.H.		

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	1 Core Recovery SPW e	2 Sample No. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-19.9	0					
	2					
	4		(SP) LIGHT GRAY POORLY GRADED SAND (FIRM)			LAB. TESTING JAR CLASS. --- P. P. (SP) 10.15 VP, MA 2000 psi analysis
	6					
	8					
-29.9	10					
-30.4					1	
	12					
	14					
	16					
	18					
-39.9						

W/SHAL FRAGE

DRILLING LOG (Cont. Sheet)			ELEVATION TOP OF HOLE -19.3	Hole No. GP-15-87		
PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI			INSTALLATION M.D.O	SHEET 2 OF 2 SHEETS		
ELEVATION a	DEPTH b	LOG NO. c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV. e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-39.9	20.3		(SP) LIGHT GRAY POORLY GRADED SAND (FIRM) W/ SHELL FRAGS			B.O.H.

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(EN 1110-1-1801)

OPD 1110 OF 611-101

PROJECT GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI

HOLE NO
GP-15-87

Hole No. GP-16-87

DRILLING LOG		DIV. S.A.D	INSTALLATION M.D.O.	SHEET 1 OF 2 SHEETS
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI			10. SIZE AND TYPE OF BIT VIBRACORE TUBE	
2. LOCATION (Coordinates or Station) N 233,317 E 449,767			11. DAYTON ELEVATION SHOWN (TBM or BBL) M.L.L.W.	
3. DRILLING AGENCY M.D.O.			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
4. HOLE NO. (As shown on drawing title) and B/L Number GP-16-87			13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN 5 UNDISTURBED	
5. NAME OF DRILLER FULLER			14. TOTAL NUMBER CORE BOXES —	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED ———— DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN			16. DATE HOLE STARTED 7-24-87 COMPLETED 7-24-87	
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE -16.8	
9. TOTAL DEPTH OF HOLE 30.0' (EL.-46.8)			18. TOTAL CORE RECOVERY FOR BORING	
			19. SIGNATURE OF INSPECTOR D.G.H. BRYANT & JONES	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BORER SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-16.8	0					
	2		(SF) LIGHT GRAY POORLY GRADED SAND (FIRM) w/ SOME MOLLUSK TRACE SHELLS			LAB TESTING JAR CLASS. - S, P 1 (SP) - - - - - MA 2 (SC) - - - - - 3 (SM) - - - - - 4 (SM) - - - - - 5 (CH) - - - - -
-24.8	8					
-25.3	9				1	
	10					
	12					
	14					
	16					
-34.2	24					
-34.8	25					
-35.3	26					
	28					
-36.3	30		(CL) GRAY SANDY CLAY (SILTY) (SOFT)	34	2	SAMPLE #2 TORVANE-CHESTER PENETRATED- 0.25 - - -

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PROJECT GULFPORT SHIP CHANNEL HOLE NO.
GULFPORT, MISSISSIPPI GP-16-87

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		-16.8		Hole No. GP-16-87	
PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI			INSTALLATION		M.D.O		SHEET 2 OF 2 SHEETS
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV. e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
-36.8	20		(SM) GRAY SILTY SAND (CLAYEY) (FIRM)				
-38.8	22						
-39.3				21	3		
	24						
-41.8	25		(ML) GRAY SANDY SILT (F.F.N.)				
-43.8	26						
-44.3				29	4		
	28						
-45.6	28		(CH) GRAY FAT CLAY (SOFT)			SAMPLE #5 PLANE-CUT TEST PENETROMETER- CUT TEST	
-46.3							
-46.8	30						
			B.C.H.				

NO. FORM
AN 87 1836-A

(NR 1110-1-1801)

DD FORM 67-618-001

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PROJECT
GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI

HOLE NO

GP-16-87

Hole No. GP-17-87

DRILLING LOG		DIVISION	S.A.D	INSTALLATION	M.D.O.	SHEET 1 OF 2 SHEETS
1. PROJECT			GULFPORT SHIP CHANNEL			
2. LOCATION (Coordinates or Station)			GULFPORT, MISSISSIPPI N 205-30 E 450, 440			
3. DRILLING AGENCY			M.D.O.			
4. HOLE NO. (As shown on drawing title) and file number			GP-17-87			
5. NAME OF DRILLER			FULLER			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			10. SIZE AND TYPE OF BIT			
			VIBRACORE TUBE			
			11. DATUM FOR ELEVATION SHOWN (FEET or METER) MLLW			
			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE			
			13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN			
			DISTURBED 4 UNDISTURBED —			
			14. TOTAL NUMBER CORE BOXES —			
			15. ELEVATION GROUND WATER N/A			
			16. DATE HOLE			
			STARTED 7-24-87 COMPLETED 7-24-87			
			17. ELEVATION TOP OF HOLE -17.9			
			18. TOTAL CORE RECOVERY FOR BORING			
			19. SIGNATURE OF INSPECTOR D.G.H.			
			BRYANT & JONES			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CODE ROCKET NO.	SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-17.9			(SM) GRAY SILTY SAND (CLAYEY) (FIRM)			
-19.4					1	
-19.9	2					
-20.9	3					LAB TESTING JAR CLASS
	4		(SP) - GRY GRAY POORLY GRADED SAND (FIRM)			1 (SP-SM, 2 (SP) 3 - MA
-23.3					2	
-23.8	6					
-26.1	8.2					
	10		(SM) GRAY SILTY SAND (CLAYEY) (FIRM)			
-29.9	12				3	
-30.4						
	14					
	16					
-34.9			SILTY SAND (FIRM)		4	
-35.4						
	18					
-37.9	20					

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(TRANSLUCENT)

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PROJECT
GULFPORT SHIP CHANNEL
GULFPORT, MISS. ST. PD
HOLE NO.
GP-17-87

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		-17.9		Hole No. GP-17-87	
PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI			INSTALLATION			M.D.O	
SHEET 2 OF 2 SHEETS							
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVER- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
-37.9	20		(SM) GRAY SILTY SAND (FIRM)				
-47.9	30		E.C. -				

ENG FORM 1836-A
APR 67

(SEE 1110-1-1801)

OPD 1104 OF-610-603

PROJECT GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI

HOLE NO.

GP-17-87

Hole No. GP-18-87

DRILLING LOG		DIVISION	INSTALLATION		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI		S.A.D	M.D.O.			
2. LOCATION (Coordinates of Station) N 201.316 E 451.323			10. SIZE AND TYPE OF BIT VIBRACORE TUBE			
3. DRILLING AGENCY M.D.O.			11. DATUM FOR ELEVATION SHOWN (FWS or MLLW) MLLW			
4. HOLE NO. (As shown on drawing title) and file number GP-18-87			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE			
5. NAME OF DRILLER FULLER			13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DES. FROM VERT.			14. TOTAL NUMBER CORE BOXES		—	
7. THICKNESS OF OVERBURDEN			15. ELEVATION GROUND WATER		N/A	
8. DEPTH DRILLED INTO ROCK			16. DATE HOLE		STARTED 7-21-87 COMPLETED 7-21-87	
9. TOTAL DEPTH OF HOLE 20.0 (EL -43.1)			17. ELEVATION TOP OF HOLE -23.1			
			18. TOTAL CORE RECOVERY FOR BORING			
			19. SIGNATURE OF INSPECTOR BRYANT & JONES		D.G.H	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-23.1						LAB. TESTING JAR CLASS no. 0, 2 1 (SP) N.F.F. 1.2 MA
-33.1			(SP) LIGHT GRAY POORLY GRADED SAND (FIRM)			
-43.6					1	
-43.1	22.5					B.C.4

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PROJECT GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI HOLE NO. GP-18-87

Hole No. GP-19-87

DRILLING LOG		DIVISION	S.A.D.	INSTALLATION		M.D.O.	SHEET 1 OF 2 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI				10. SIZE AND TYPE OF BIT VIBRACORE TUBE				
2. LOCATION (Coordinates or Station) N 291.543 E 449 556				11. DATUM FOR ELEVATION MEASUREMENT M.L.L.W.				
3. DRILLING AGENCY M.D.O.				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE				
4. HOLE NO. (As shown on drawing title and file number) GP-19-87				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISTURBED 3 UNDISTURBED		
5. NAME OF DRILLER FULLER				14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUND WATER N/A		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE		STARTED 7-24-87 COMPLETED 7-24-87		
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE		-18.4		
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING		3		
9. TOTAL DEPTH OF HOLE 30.0 (E. -48.4)				19. SIGNATURE OF INSPECTOR		BRYANT & JONES D.G.H.		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1 CORE RECOVERY %	2 CORE RECOVERY %	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)		
-18.4	2		(SP) LIGHT GRAY POORLY GRADED SAND (FIRM)			LAB TESTING JAR CLASS: 11 PI PI 200 SIEVE 1 - - - - - MA 2 (SM-SC) 20 15 3 43 3 (CH) 25 24 1 19		
-23.4								
-23.9	6				1			
	8							
	10							
	12							
	14							
-34.6	16.2		(SC) GRAY CLAYEY SAND (VER. FIRM)					
-36.9	18							
-37.4				21	2			
-38.4								

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PROJECT GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI
HOLE NO. GP-19-87

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE: -18.4		Hole No. GP-19-87		
PROJECT GULFPORT SHIP CHANNEL		INSTALLATION M.D.O		SHEET 2 OF 2 SHEETS		
ELEVATION	DEPTH	LOGS	CLASSIFICATION OF MATERIALS (Description)	W-CORR. DEPTH W.C.	BOX OR SAMPLE NO.	REMARKS (Drilling note, water level, depth of weathering, etc., if applicable)
-38.4	20		(SC) GRAY CLAYEY SAND (VERY FIRM)			
-40.9	22.5					
-42.9	24		(ML) GRAY SANDY SILT (CLAYEY) (SOFT)	32	3	SAMPLE #3 TORVANE-0.11 T.S.F. PENETROMETER-0.1 T.S.F.
-43.4	25					
-48.4	30					
			B.O.H.			

Note No. GP-20-87

DRILLING LOG		DIVISION	INSTALLATION	SHEET	
1. PROJECT: GULFPORT SHIP CHANNEL		S.A.D	M.D.O.	1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station): N 179 246 E 451.534		10. SIZE AND TYPE OF BIT: VIBRACORE TUBE			
3. DRILLING AGENCY: M.D.O.		11. DATE FOR ELEVATION SHOWN (Top of Borehole): MLLW			
4. HOLE NO. (As shown on drawing title and file number): GP-20-87		12. MANUFACTURER'S DESIGNATION OF DRILL: VIBRACORE			
5. NAME OF DRILLER: FULLER		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED: UNDISTURBED:			
6. DIRECTION OF HOLE: <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DES: FROM VERT:		14. TOTAL NUMBER CORE BOXES: —			
7. THICKNESS OF OVERBURDEN:		15. ELEVATION GROUND WATER: —			
8. DEPTH DRILLED INTO ROCK:		16. DATE HOLE: STARTED: 7-21-87 COMPLETED: 7-21-87			
9. TOTAL DEPTH OF HOLE: 12.4' (E - 47.7)		17. ELEVATION TOP OF HOLE: -35.3			
		18. TOTAL CORE RECOVERY FOR BORING: —			
		19. SIGNATURE OF INSPECTOR: BRYANT & JONES D.G.H.			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1 CORE RECOVERY	2 CORE SAMPLE NO.	REMARKS (Drilling time, water loss, depth of overburden, etc., if significant)
-35.3	2		(SM) GRAY SILTY SAND (FINE GRAINED) (DENSE)			LAB TESTING JAR CLASS — (SP) — MA
-41.3	6				1	
-41.8						
-47.7	12.4		E.C. 1			

Hole No. GP-21-87

DRILLING LOG		DIVISION	S.A.D	INSTALLATION	M.D.O.	SHEET 1 OF 1 SHEETS
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI				10. SIZE AND TYPE OF BIT: VIBRACORE TUBE		
2. LOCATION (Continuation of Station) N 109 33 E 450.477				11. DATUM FOR ELEVATION SHOWN (TBM or MLLW) MLLW		
3. DRILLING AGENCY M.D.O				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE		
4. HOLE NO. (As shown on drawing title and site number) GP-21-87				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED 2 UNDISTURBED		
5. NAME OF DRILLER FULLER				14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A		
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 7-21-87 COMPLETED 7-21-87		
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -24.2		
9. TOTAL DEPTH OF HOLE 19.9 (EL. -44.0)				18. TOTAL CORE RECOVERY FOR BORING 1		
				19. SIGNATURE OF INSPECTOR BRYANT & JONES D.S.H.		

ELEVATION c	DEPTH b	LEGEND e	CLASSIFICATION OF MATERIALS (Description) d	1 CORE RECOVERY NO. a	2 CORE SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of penetration, etc., if significant) g
-24.2	0		(SP) LIGHT GRAY POORLY GRADED SAND (SILTY) (FIRM), MICA W/SHELLS & WOOD FRAGS			LAB TESTING JAR CLASS - S.P. 1 (SC) - - - 2 (SP) NP NP NP MA 3 (SP-SM) NP NP NP MA
-27.2	2					
-27.5					1	
	4					
-29.4						
	5					
-31.2	1		(SM) GRAY SILTY SAND (CLAY) MICA W/SHELL FRAGS. (FIRM)		2	
-31.7						
	2					
	4					
	6					
-39.2			GRAY SILTY SAND (POORLY GRADED). MICA W. SHELLS (FIRM)			
-39.7					3	
	16					
	12					
-44.0	19.9					S.D.M

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PROJECT GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI
HOLE NO. GP-21-87

Hole No. GP-22-87

DRILLING LOG		DIVISION	INSTALLATION		SHEET	
1. PROJECT GULFPORT SHIP CHANNEL		S.A.D	M.D.O.		of 2 SHEETS	
2. LOCATION (Coordinates or Station)		3. DRILLING AGENCY		10. SIZE AND TYPE OF BIT VIBRACORE TUBE		
N 139 323 E 449.385		M.D.O.		11. DATUM FOR ELEVATION (FIM or BM)		
4. HOLE NO. (As shown on drawing title and file number)		GP-22-87		MLLW		
5. NAME OF DRILLER		FULLER		12. MANUFACTURER'S DESIGNATION OF DRILL		
				VIBRACORE		
6. DIRECTION OF HOLE		7. THICKNESS OF OVERBURDEN		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				14. TOTAL NUMBER CORE BOXES		
8. DEPTH DRILLED INTO ROCK		9. TOTAL DEPTH OF HOLE 27.8 (EL. -49.4)		15. ELEVATION GROUND WATER		
				N/A		
16. DATE HOLE		17. ELEVATION TOP OF HOLE -21.6		18. TOTAL CORE RECOVERY FOR BORING		
STARTED 7-24-87 COMPLETED 7-24-87				19. SIGNATURE OF INSPECTOR		
				BRYANT & JONES D.G.H		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1 CORE RECOVERY PER W.C.	2 CORE SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-21.6	2		(SP) LIGHT GRAY POORLY GRADED SAND (SILTY) (FIRM)			LAB. TESTING
-24.1						JAN CLASS (L PL PI) NP NP NP - MA
-24.6					1	2 (CH) - - - - - F3
						5 (SP) - - - - -
						6 (SP) NP NP NP - MA
-28.5	6.9		(CH) GRAY FAT CLAY (FIRM)			SAMPLE #2
-30.1				51	2	DIANE-0.12 TSF
-30.6						PENETROMETER-0.55 TSF
-33.8	12.2		(SM) GRAY SILTY SAND (FIRM)		3	
-34.1						
-34.6						
-35.4	12.2		(CH) GRAY FAT CLAY (SOFT)		4	* SAMPLE #4
-35.8						DIANE-0.11 TSF
-36.4						PENETROMETER-0.1 TSF
-36.8	15.2		(SP) LIGHT GRAY POORLY GRADED SAND (SILTY) (FIRM) W/TRACE SHELL FRAGS		5	
-38.1						
-38.6						
-41.0	23.4		(SM) BROWN TAN SILTY SAND (FIRM)			
-41.6						

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PROJECT GULFPORT SHIP CHANNEL HOLE NO. GP-22-87
GULFPORT, MISSISSIPPI

DRILLING LOG (Cont Sheet) SURVEIN TOP OF HOLE -21.6 Hole No. GP-22-87

PROJECT GULFPORT SHIP CHANNEL DISTAMARON M.D.O. SHEET 2 OF 2 SHEETS

SURVEIN	DEPTH	LOGS	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOV. BY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc. if significant)
a	b	c	d	e	f	g

-41.6	20		(SM) BROWN-TAN SILTY SAND (FIRM)			
44.6						
-45.1					6	
	22					
	24					
	26					
-49.4	28					

B.C.H.

DRILLING LOG		DIVIS	INSTALLATION		Hole No. GP-23-87	
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI			M.D.O.		SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station) N 196 9-3 E 450.774			10. SIZE AND TYPE OF BIT VIBRACORE TUBE		11. DAYUM FOR ELEVATION SMOOTH (Type & Size) M.L.W.	
3. DRILLING AGENCY M.D.O.			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE		13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN	
4. HOLE NO. (As shown on Drawing H10) and file number GP-23-87			14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUND WATER N/A	
5. NAME OF DRILLER FULLER			16. DATE MOLE 7-21-87		17. ELEVATION TOP OF MOLE -32.4	
6. DIRECTION OF MOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			18. TOTAL CORE RECOVERY FOR BORING		19. SIGNATURE OF INSPECTOR BRYANT & JONES D.S.H.	
7. THICKNESS OF OVERBURDEN			19. ELEVATION TOP OF MOLE		20. SIGNATURE OF INSPECTOR	
8. DEPTH DRILLED INTO ROCK			20. SIGNATURE OF INSPECTOR		21. SIGNATURE OF INSPECTOR	
9. TOTAL DEPTH OF MOLE 17.4 (EL. -49.8)			21. SIGNATURE OF INSPECTOR		22. SIGNATURE OF INSPECTOR	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1 CORE RECOVERY W.C.	2 CORE RECOVERY NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-32.4	0		(SM) GRAY SILTY SAND (FINE GRAINED) (FIRM) W/MICA & SHELL FRASS			LAB TESTING JAR CLASS LL PL PI 1 (SM) NP NP NP, MA
-42.4	6					
-42.9	7			2.9	1	
-49.8	17.4					
			E.C.H.			

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PROJECT
GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI
HOLE NO.
GP-23-87

DRILLING LOG		DIVISION	INSTALLATION	Hole No. GP-24-87		
PROJECT GULFPORT SHIP CHANNEL		S.A.D.	M.D.O.	SHEET 1 OF 1 SHEETS		
LOCATION (Geographic or Station)		N 172.519 E 449 753				
DRILLING AGENCY		M.D.O.				
HOLE NO. (As shown on boring logs and file number)		GP-24-87				
NAME OF DRILLER		FULLER				
DIRECTION OF HOLE		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				
THICKNESS OF OVERBURDEN		15. ELEVATION GROUND WATER N/A				
DEPTH DRILLED INTO ROCK		16. DATE HOLE 7-21-87 7-21-87				
TOTAL DEPTH OF HOLE 17.8 (EL -46.2)		17. ELEVATION TOP OF HOLE -29.4				
		18. TOTAL CORE RECOVERY FOR BORING				
		19. SIGNATURE OF INSPECTOR BRYANT & JONES D.G.H.				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1 CORRECTION NO.	2 CORRECTION NO.	REMARKS (Drilling time, water loss, depth of penetration, etc., if significant)
-28.9			(SP) LIGHT GRAY POORLY GRADED SAND (FIRM)	W.C.	1	
-29.9	1					
	2		(CL) GRAY SILTY CLAY (VERY SOFT)			
-32.4	4			114	2	SAMPLE #2 TORVANE-0.066 TSF PENETROMETER-0.0 TSF
-32.8						
	6					
-36.2	7.8		(SM) GRAY SILTY SAND (DENSE) W/SHELL FRAGS.		3	LAB TESTING JAR CLASS II PL PL 100 316 4
-36.6						
-37.1						
-38.4	10		(SP) GRAY POORLY GRADED SAND (SILTY) (FIRM) W/TRACE ROOTS			
	12					
-42.4	14				4	
-42.9						
	16					
-46.2	17.8					

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PROJECT GULFPORT SHIP CHANNEL

HOLE NO. GP-24-87

GULFPORT, MISSISSIPPI

Note No. GP-25-87

DRILLING LOG		DIVISION S.A.D.		INSTALLATION M.D.O.		SHEET 1 OF 2 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI				10. SIZE AND TYPE OF BIT VIBRACORE TUBE			
2. LOCATION (Coordinates or Section) N 196.34 E 447.36 E				11. DATUM FOR ELEVATION MEASUREMENT - MLLW			
3. DRILLING AGENCY M.D.O.				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE			
4. HOLE NO. (As shown on drawing sheet and life number) GP-25-87				13. TOTAL NO. OF EYES - DISTURBED UNDISTURBED 3 0			
5. NAME OF DRILLER FULLER				14. TOTAL NUMBER CORE BOXES -			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED COMPLETED 7-24-87 7-24-87			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -20.2			
9. TOTAL DEPTH OF HOLE 25.5' (EL. -45.7)				18. TOTAL CORE RECOVERY FOR BORING 1			
				19. SIGNATURE OF INSPECTOR D.G.H. BRYANT & JONES			

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	1 CORRECTION W.C. e	2 CORRECTION NO. f	REMARKS (Drilling time, water loss, depth of penetration, etc., if significant) g
-20.2			(SP) LIGHT TAN POORLY GRADED SAND (FIRM)			LAB TESTING JAR CLASS - LL FL PI SANDS 1 (SP) - - - - 2 (CH) 107 23 79 96 3 (SPW) NP NP NP - MA
-21.7						
-22.2	2				1	
-23.2	3		(CH) GRAY FAT CLAY (SOFT)			SAMPLE #2 PLANE - 0.10 TSF PENETROMETER - 0.0 TSF
	4					
	5					
-28.7	8					
-29.2	9			108	2	
	10					
	12					
-33.2	15		(SM) GRAY SILTY SAND (FIRM) W/MICA & TRACE SHELLS			
	14					
	16					
-38.2	23			31	3	
-38.7						
-40.2						

DRILLING LOG (Cont. Sheet) ELEVATION TOP OF HOLE -20.2 Hole No. GP-25-87

PROJECT GULFPORT SHIP CHANNEL INSTALLATION M.D.O. SHEET 2 OF 2 SHEETS

ELEVATION a	DEPTH b	LOG-NO c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV. e	BOX OR SAMPLE NO. f	REMARKS (Drilling run, water loss, depth of underway, etc. if significant) g
-10.2	20		(SM) GRAY SILTY SAND (FIRM) W/MICA & TRACE SHELLS			
-95.7	25.5		B.O.H			

DRILLING LOG		SITE		INSTALLATION		Hole No. GP-26-87	
1. PROJECT GULFPORT SHIP CHANNEL		S.A.D		M.D.O.		SHEET 2 OF 2 SHEETS	
2. LOCATION (Coordinates or Station)		GULFPORT, MISSISSIPPI		10. SIZE AND TYPE OF BIT VIBRACORE TUBE		M.L.W.	
3. DRILLING AGENCY		M.D.O.		11. DATE FOR ELEVATION BROWN (750 ± 200)		M.L.W.	
4. HOLE NO. (As shown on drawing title and file number)		GP-26-87		12. MANUFACTURER'S DESIGNATION OF DRILL		VIBRACORE	
5. NAME OF DRILLER		FULLER		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 3 UNDISTURBED —	
6. DIRECTION OF HOLE		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES		—	
7. THICKNESS OF OVERBURDEN		—		15. ELEVATION GROUND WATER		N/A	
8. DEPTH DRILLED INTO ROCK		—		16. DATE HOLE		STARTED 7-24-87 COMPLETED 7-24-87	
9. TOTAL DEPTH OF HOLE 22.5' (E.L. -12.4)		—		17. ELEVATION TOP OF HOLE		-19.9	
—		—		18. TOTAL CORE RECOVERY FOR BORING		V/A	
—		—		19. SIGNATURE OF INSPECTOR		BRYANT & JONES D.G.H.	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1 CORE RECOVERY W.C.	SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-19.9	0		(SM) GRAY SILTY SAND (CLAYEY) (FIRM)			LAB TESTING JAR CLASS 1 (SC) 2 (CH) 3 (SP)
-24.9	5		N. LAYER OF GRAY FAT CLAY (CH)			
-25.4	6			49	1	
-27.3	7.2					
-30.4	10		(CH) GRAY FAT CLAY (VERY SOFT)			SAMPLE #2 TOP. LANE - C.C.B.A. DEPT. - C.C.B.A. C.C.T.S.
-30.9	10.7			57	2	
-32.6	12.7					
-36.9	17		(SM) GRAY SILTY SAND (CLAYEY) (FIRM)			
-37.4	17.7		W. TRACE SHELL FRAGS			
-39.9	20			24	3	

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PROJECT GULFPORT SHIP CHANNEL HOLE NO. GP-26-87
GULFPORT, MISSISSIPPI

DRILLING LOG (Cont. Sheet)		ELEVATION TOP OF HOLE		Hole No. GP-26-87		
PROJECT GULFPORT SHIP CHANNEL		LOCATION		DATE 2		
GULFPORT, MISSISSIPPI		M.D.O.		of 2 sheets		
ELEVATION	DEPTH	LOGGING	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERED	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
a	b	c	d	e	f	g
-39.9	20		(SM) GRAY SILTY SAND (CLAYEY) (FIRM) W/TRACE SHELL FRAGS.			
-42.4	22.5		B.O.H			

DRILLING LOG		DIVISION	INSTALLATION	Hole No. GP-27-87		
1. PROJECT GULFPORT SHIP CHANNEL		S.A.D	M.D.O.	SHEET 1 OF 1 SHEETS		
2. LOCATION (Continuation of Station)		GULFPORT, MISSISSIPPI				
3. DRILLING AGENCY		M.D.O.				
4. HOLE NO. (As shown on drawing title and file number)		GP-27-87				
5. NAME OF DRILLER		FULLER				
6. DIRECTION OF HOLE		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				
7. THICKNESS OF OVERBURDEN		10. DATE HOLE				
8. DEPTH DRILLED INTO ROCK		7-22-87				
9. TOTAL DEPTH OF HOLE 19.5 (EL -49.3)		11. ELEVATION TOP OF HOLE -29.8				
		12. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN 2				
		13. ELEVATION GROUND WATER N/A				
		14. TOTAL NUMBER CORE BOXES -				
		15. SIGNATURE OF INSPECTOR BRYANT & JONES D.S.H.				
		16. SIGNATURE OF INSPECTOR BRYANT & JONES D.S.H.				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1 CORE RECOVERY NO.	2 CORE RECOVERY NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-29.3	0		(CH) GRAY FAT CLAY (SOFT)	100	1	SAMPLE #1 TORVANE-0.11 TSF PENETROMETER- 0.1 TSF LAB TESTING JAR CLASS LL PL PI 1 (CH) - - - 2 (SP-SM) NP NP NP, MA
-31.8	2					
-32.3	3					
-35.3	5					
-41.8	12		(SM) GRAY SILTY SAND (FRY) W/ SOME SHELLS		2	
-42.3	13					
	14					
-49.3	19.5					
			B.C.T.			

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PROJECT GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI
HOLE NO. GP-27-87

DRILLING LOG		CIVIL	S.A.D	INSTALLATION	M.D.O.	Hole No. GP-23-87	
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI				10. SIZE AND TYPE OF BIT VIBRACORE TUBE		SHEET 1 OF 2 SHEETS	
2. LOCATION (Continuation of Station)				11. DATUM FOR ELEVATION INDICATION - M.S.L.			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE			
4. HOLE NO. (As shown on drawing title and site number)				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES	
5. NAME OF DRILLER				15. ELEVATION GROUND WATER N/A		16. DATE MOLE	
6. DIRECTION OF MOLE				17. ELEVATION TOP OF MOLE		18. TOTAL CORE RECOVERY FOR BORING	
7. THICKNESS OF OVERBURDEN				19. SIGNATURE OF INSPECTOR		20. HOLE NO.	
8. DEPTH DRILLED INTO ROCK				21. ELEVATION TOP OF MOLE		22. TOTAL CORE RECOVERY FOR BORING	
9. TOTAL DEPTH OF MOLE				23. SIGNATURE OF INSPECTOR		24. HOLE NO.	
10. TOTAL DEPTH OF MOLE				25. SIGNATURE OF INSPECTOR		26. HOLE NO.	
11. TOTAL DEPTH OF MOLE				27. SIGNATURE OF INSPECTOR		28. HOLE NO.	
12. TOTAL DEPTH OF MOLE				29. SIGNATURE OF INSPECTOR		30. HOLE NO.	
13. TOTAL DEPTH OF MOLE				31. SIGNATURE OF INSPECTOR		32. HOLE NO.	
14. TOTAL DEPTH OF MOLE				33. SIGNATURE OF INSPECTOR		34. HOLE NO.	
15. TOTAL DEPTH OF MOLE				35. SIGNATURE OF INSPECTOR		36. HOLE NO.	
16. TOTAL DEPTH OF MOLE				37. SIGNATURE OF INSPECTOR		38. HOLE NO.	
17. TOTAL DEPTH OF MOLE				39. SIGNATURE OF INSPECTOR		40. HOLE NO.	
18. TOTAL DEPTH OF MOLE				41. SIGNATURE OF INSPECTOR		42. HOLE NO.	
19. TOTAL DEPTH OF MOLE				43. SIGNATURE OF INSPECTOR		44. HOLE NO.	
20. TOTAL DEPTH OF MOLE				45. SIGNATURE OF INSPECTOR		46. HOLE NO.	
21. TOTAL DEPTH OF MOLE				47. SIGNATURE OF INSPECTOR		48. HOLE NO.	
22. TOTAL DEPTH OF MOLE				49. SIGNATURE OF INSPECTOR		50. HOLE NO.	
23. TOTAL DEPTH OF MOLE				51. SIGNATURE OF INSPECTOR		52. HOLE NO.	
24. TOTAL DEPTH OF MOLE				53. SIGNATURE OF INSPECTOR		54. HOLE NO.	
25. TOTAL DEPTH OF MOLE				55. SIGNATURE OF INSPECTOR		56. HOLE NO.	
26. TOTAL DEPTH OF MOLE				57. SIGNATURE OF INSPECTOR		58. HOLE NO.	
27. TOTAL DEPTH OF MOLE				59. SIGNATURE OF INSPECTOR		60. HOLE NO.	
28. TOTAL DEPTH OF MOLE				61. SIGNATURE OF INSPECTOR		62. HOLE NO.	
29. TOTAL DEPTH OF MOLE				63. SIGNATURE OF INSPECTOR		64. HOLE NO.	
30. TOTAL DEPTH OF MOLE				65. SIGNATURE OF INSPECTOR		66. HOLE NO.	
31. TOTAL DEPTH OF MOLE				67. SIGNATURE OF INSPECTOR		68. HOLE NO.	
32. TOTAL DEPTH OF MOLE				69. SIGNATURE OF INSPECTOR		70. HOLE NO.	
33. TOTAL DEPTH OF MOLE				71. SIGNATURE OF INSPECTOR		72. HOLE NO.	
34. TOTAL DEPTH OF MOLE				73. SIGNATURE OF INSPECTOR		74. HOLE NO.	
35. TOTAL DEPTH OF MOLE				75. SIGNATURE OF INSPECTOR		76. HOLE NO.	
36. TOTAL DEPTH OF MOLE				77. SIGNATURE OF INSPECTOR		78. HOLE NO.	
37. TOTAL DEPTH OF MOLE				79. SIGNATURE OF INSPECTOR		80. HOLE NO.	
38. TOTAL DEPTH OF MOLE				81. SIGNATURE OF INSPECTOR		82. HOLE NO.	
39. TOTAL DEPTH OF MOLE				83. SIGNATURE OF INSPECTOR		84. HOLE NO.	
40. TOTAL DEPTH OF MOLE				85. SIGNATURE OF INSPECTOR		86. HOLE NO.	
41. TOTAL DEPTH OF MOLE				87. SIGNATURE OF INSPECTOR		88. HOLE NO.	
42. TOTAL DEPTH OF MOLE				89. SIGNATURE OF INSPECTOR		90. HOLE NO.	
43. TOTAL DEPTH OF MOLE				91. SIGNATURE OF INSPECTOR		92. HOLE NO.	
44. TOTAL DEPTH OF MOLE				93. SIGNATURE OF INSPECTOR		94. HOLE NO.	
45. TOTAL DEPTH OF MOLE				95. SIGNATURE OF INSPECTOR		96. HOLE NO.	
46. TOTAL DEPTH OF MOLE				97. SIGNATURE OF INSPECTOR		98. HOLE NO.	
47. TOTAL DEPTH OF MOLE				99. SIGNATURE OF INSPECTOR		100. HOLE NO.	
48. TOTAL DEPTH OF MOLE				101. SIGNATURE OF INSPECTOR		102. HOLE NO.	
49. TOTAL DEPTH OF MOLE				103. SIGNATURE OF INSPECTOR		104. HOLE NO.	
50. TOTAL DEPTH OF MOLE				105. SIGNATURE OF INSPECTOR		106. HOLE NO.	
51. TOTAL DEPTH OF MOLE				107. SIGNATURE OF INSPECTOR		108. HOLE NO.	
52. TOTAL DEPTH OF MOLE				109. SIGNATURE OF INSPECTOR		110. HOLE NO.	
53. TOTAL DEPTH OF MOLE				111. SIGNATURE OF INSPECTOR		112. HOLE NO.	
54. TOTAL DEPTH OF MOLE				113. SIGNATURE OF INSPECTOR		114. HOLE NO.	
55. TOTAL DEPTH OF MOLE				115. SIGNATURE OF INSPECTOR		116. HOLE NO.	
56. TOTAL DEPTH OF MOLE				117. SIGNATURE OF INSPECTOR		118. HOLE NO.	
57. TOTAL DEPTH OF MOLE				119. SIGNATURE OF INSPECTOR		120. HOLE NO.	
58. TOTAL DEPTH OF MOLE				121. SIGNATURE OF INSPECTOR		122. HOLE NO.	
59. TOTAL DEPTH OF MOLE				123. SIGNATURE OF INSPECTOR		124. HOLE NO.	
60. TOTAL DEPTH OF MOLE				125. SIGNATURE OF INSPECTOR		126. HOLE NO.	
61. TOTAL DEPTH OF MOLE				127. SIGNATURE OF INSPECTOR		128. HOLE NO.	
62. TOTAL DEPTH OF MOLE				129. SIGNATURE OF INSPECTOR		130. HOLE NO.	
63. TOTAL DEPTH OF MOLE				131. SIGNATURE OF INSPECTOR		132. HOLE NO.	
64. TOTAL DEPTH OF MOLE				133. SIGNATURE OF INSPECTOR		134. HOLE NO.	
65. TOTAL DEPTH OF MOLE				135. SIGNATURE OF INSPECTOR		136. HOLE NO.	
66. TOTAL DEPTH OF MOLE				137. SIGNATURE OF INSPECTOR		138. HOLE NO.	
67. TOTAL DEPTH OF MOLE				139. SIGNATURE OF INSPECTOR		140. HOLE NO.	

DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE -18.9		Hole No. GP-23-87	
PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI			DETAILS M.D.O		SHEET 2 OF 2 SHEETS	
ELEVATION a	DEPTH b	LOGS c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV. e	BOX OR SAMPLE NO. f	REMARKS (Drilling run, water loss, depth of weathering, etc. if significant) g
-38.9	20		(SM) GRAY & BROWN SILTY SAND (CLAYEY) (FIRM)			
-43.9	22					
-44.4	24				3	
-48.9	26		B O H			
	28					
	30					

Hole No. GP-29-87

DRILLING LOG		DIVISION	S.A.D	INSTALLATION	M.D.O.	SHEET 1 OF 2 SHEETS
1. PROJECT			GULFPORT SHIP CHANNEL			
2. LOCATION (Coordinates or Station)			N 191, 55.2 E 451, 0.58			
3. DRILLING AGENCY			M.D.O.			
4. HOLE NO. (As shown on drawing HHO and site number)			GP-29-87			
5. NAME OF DRILLER			FULLER			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			10. SIZE AND TYPE OF BIT			
			VIBRACORE TUBE			
7. THICKNESS OF OVERBURDEN			11. DAY ON WHICH ELEVATION SHOWN (Tide or M.S.L.)			
			M.L.L.W.			
8. DEPTH DRILLED INTO ROCK			12. MANUFACTURER'S DESIGNATION OF DRILL			
			VIBRACORE			
9. TOTAL DEPTH OF HOLE			13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN			
9.0 (EL. -52.1)			2-T.E.E. 2-JAR			
			14. TOTAL NUMBER CORE BOXES			
			15. ELEVATION GROUND WATER			
			N/A			
			16. DATE HOLE			
			7-22-87			
			17. ELEVATION TOP OF HOLE			
			-33.1			
			18. TOTAL CORE RECOVERY FOR BORING			
			N/A			
			19. SIGNATURE OF INSPECTOR			
			BRYANT & JONES			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1 CORE NO.	2 CORE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-33.1	0		(ML)	161	1	SAMPLES 1 & 2 WERE CUT, SEALED & SENT TO S.A.D. LAB IN VIBRACORE TUBE.
-34.1	3		(ML)	85	2	± 0.5 TO ± 0.5' WERE VISUALLY CLASSIFIED WHILE CONTAINED IN CLEAR VIBRACORE TUBE.
-39.1	6		(ML) BLACK CLAYEY SILT (VERY SOFT)	79	3	
-40.1						
-40.6						
-41.1	8		(SM) GRAY SILTY SAND (FIRM) W/TRACE SHELLS			LAB TESTING JAR CLASS L.P.L.P. 3 (CH) --- 4 (SV) NP NP NP, MA VIBRACORE SNAP 2 (CH) 83 22 GI MA, NY
-45.1	12			23	4	
-45.6						
	14					
	16					
	18					
-52.1	19					
			B.O.H			
			SEE LAB TEST. ON SHT. 2			

DRILLING LOG (Cont Sheet)				ELEVATION TOP OF HOLE - 33.1		Hole No. GP-29-87	
PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI				INSTALLATION MDO		SHEET 2 OF 2 SHEETS	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVER ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
			<div style="display: flex; justify-content: space-between;"> <div>SAMPLE #</div> <div>LABORATORY TESTING Visual Classification and/or Remarks</div> </div> <hr/> <div> <div style="display: flex; justify-content: space-between;"> <div>1</div> <div>El. 33.1-34.1</div> <div>No Recovery</div> </div> <div> <div style="display: flex; justify-content: space-between;"> <div>34.1-35.6</div> <div>Dk gray very soft & wet fat clay (CH)</div> </div> <div> <div style="display: flex; justify-content: space-between;"> <div>35.6-35.7</div> <div>Dk gray (SP)</div> </div> <div> <div style="display: flex; justify-content: space-between;"> <div>35.7-36.1</div> <div>Dk gray soft fat clay (CH)</div> </div> <div> <div style="display: flex; justify-content: space-between;"> <div>Density taken @ El. 35.1</div> <div>pcf=32.1</div> </div> <div> <div style="display: flex; justify-content: space-between;"> <div>2</div> <div>36.1-39.1</div> <div> Density taken @ El. 38.6 pcf=50.5 spg=2.61 LOI=6.9 LL=83 PL=22 PI=61 </div> </div> </div> </div> </div> </div> </div> </div>				

Hole No. GP-30-87

DRILLING LOG	DIVISION	INSTALLATION	SHEET
	S.A.D.	M.D.O.	OF 1 SHEETS
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI		10. SIZE AND TYPE OF BIT VIBRACORE TUBE	
2. LOCATION (Coordinates or Station) N 191974 E 452702		11. DATUM FOR ELEVATION BROWN (TBM or MLLW) MLLW	
3. DRILLING AGENCY M.D.O.		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
4. HOLE NO. (As shown on drawing title and site number) GP-30-87		13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN 3	
5. NAME OF DRILLER FULLER		14. TOTAL NUMBER CORE BOXES —	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN		16. DATE HOLE STARTED 7-22-87 COMPLETED 7-22-87	
8. DEPTH DRILLED INTO ROCK		17. ELEVATION TOP OF HOLE -19.6	
9. TOTAL DEPTH OF HOLE 19.7' (EL. -38.3)		18. TOTAL CORE RECOVERY FOR BORING 11/16	
		19. SIGNATURE OF INSPECTOR D.G.H. BRYANT & JONES	

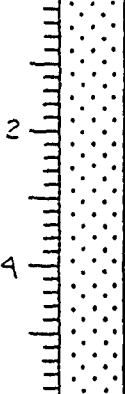

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	1 CORE RECOVERY NO. W.C.	2 CORE SAMPLE NO. I	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) 3
-18.6	1		(SP) LIGHT GRAY POORLY GRADED SAND (FIRM)			LAB. TESTING JAR GLASS 11 PL PL 100% 1 (SP, NP NP NP -MA 2 - - - - -MA 3 (CH) - - - 99 -
-22.1	2					
-22.6	4				1	
-25.6	7					
-28.6	10		(SM) GRAY SILTY SAND (FIRM) W/ 4' TO .8' LAYERS OF GRAY FAT CLAY (CH) (SOFT)		2*	* TEST PERFORMED ON (CH) LAYERS BETWEEN 4.70 AND 4.13 3' TORVANE-0.25 TSF PENETROMETER- 0.0 TSF
-29.1	12					
-32.5	13.3					
-35.6	16		(CH) GRAY FAT CLAY (SOFT)			SAMPLE #3 TORVANE-0.09 TSF PENETROMETER- 0.1 TSF
-36.1	15			100	3	
-38.3	19.7					

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PROJECT GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI

HOLE NO.
GP-30-87

DRILLING LOG		DIVISION	INSTALLATION	Hole No. 3P-31-87	
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI		S.A.D	M.D.O.	SHEET 1 OF 2 SHEETS	
2. LOCATION (Coordinates or Station) N 121.836 E 449.907		10. SIZE AND TYPE OF BIT VIBRACORE TUBE			
3. DRILLING AGENCY M.D.O.		11. DAYUM FOR ELEVATION SHOWN (TBM - BBL) M.L.L.W.			
4. HOLE NO. (As shown on drawing title) and file number GP-31-87		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE			
5. NAME OF DRILLER FULLER		13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES —			
7. THICKNESS OF OVERBURDEN		15. ELEVATION GROUND WATER N/A			
8. DEPTH DRILLED INTO ROCK		16. DATE HOLE			
9. TOTAL DEPTH OF HOLE 24.5' (EL. -42.3)		17. ELEVATION TOP OF HOLE -17.3			
		18. TOTAL CORE RECOVERY FOR BORING N/A			
		19. SIGNATURE OF INSPECTOR BRYANT E JONES D.G.H.			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY W.C.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-17.8	2		(SP) LIGHT GRAY POORLY GRADED SAND (FIRM)		LAB. TESTING JAR CLASS LL PL PI 200 Sieve 1 (SP) NP NP NP — MA 2 (CH) 115 39 76 98
-24.3	4				
-24.8	6				
-30.3	12.5				
-35.8	14		(CH) GRAY FAT CLAY (VERY SOFT)	.04	SAMPLE #2 TSP VANE - 0.11 TSF PENETROMETER - 2.0 TSF
-36.3	16				
-37.8	18				

DRILLING LOG (Cont Sheet) ELEVATION TOP OF HOLE -17.8 Hole No. GP-31-87

PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI INSTALLATION M.D.O. SHEET 2 OF 2 SHEETS


ELEVATION a	DEPTH b	LOG NO. c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV. e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of penetration, etc., if significant) g
-37.8	20		(CH) GRAY FAT CLAY (VERY SOFT)			
-42.3	24.5		B.O.H.			

Hole No. GP-32-87

DRILLING LOG		DIVIS	S.A.D	INSTALLATION	M.D.O.	SHEET	1
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI				10. SIZE AND TYPE OF BIT VIBRACORE TUBE			
2. LOCATION (Coordinates or Station) N 19° 32' E 448.578				11. DAYON FOR ELEVATION SHOWN (TYP or MLLW) MLLW			
3. DRILLING AGENCY M.D.O				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE			
4. HOLE NO. (As shown on drawing title and file number) GP-32-87				13. TOTAL NO OF OVER- BURDEN SAMPLES TAKEN: DISTURBED 3 UNDISTURBED —			
5. NAME OF DRILLER FULLER				14. TOTAL NUMBER CORE BOXES —			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED — DES. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 7-22-87 COMPLETED 7-22-87			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -24.4			
9. TOTAL DEPTH OF HOLE 16.4' (EL. -40.8)				18. TOTAL CORE RECOVERY FOR BORING N/A			
				19. SIGNATURE OF INSPECTOR D.G.H. BRYANT & JONES			

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	1 CORE RECOVERY W.C	2 CORE SAMPLE NO. I	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) f
-24.4			(SM) GRAY SILTY SAND (FIRM)			
-26.4	2		W/TRACE SHELL FRAGS.	34	1	
-26.9						LAB. TESTING
-27.9	3.5					JAR CLASS II PL 1/200 SIEVE
			(CH) GRAY FAT CLAY (VERY SOFT)			1 (SP-SM) - - - -
-32.4	8			93	2	2 (CH) 77 24 53 95
-32.9						3 (SM) - - - -
-38.1	13.7					SAMPLE #2
-38.9			(SM) GRAY SILTY SAND (FIRM)		3	3.1 ANE-0.074 TSF
-39.4			W/SOME SHELLS			PENETROMETER-
-40.8	16.4		B.O.N.			C.O.T.S.F.

Hole No. GP-33-87

DRILLING LOG		DIVISION	INSTALLATION		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL		S.A.D	M.D.O.			
2. LOCATION (Coordinates or Station)		MISSISSIPPI	10. SIZE AND TYPE OF BIT VIBRACORE TUBE			
N 109.459 E 453.103			11. DAYTON ELEVATION SHOWN (FEET - MSL)		MLLW	
3. DRILLING AGENCY		M.D.O.	12. MANUFACTURER'S DESIGNATION OF DRILL		VIBRACORE	
4. HOLE NO. (As shown on drawing (1111) and Site Number)		GP-33-87	13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		1	
5. NAME OF DRILLER		FULLER	14. TOTAL NUMBER CORE BOXES		1	
6. DIRECTION OF HOLE:			15. ELEVATION GROUND WATER		N/A	
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			16. DATE HOLE		STARTED 7-22-87 COMPLETED 7-22-87	
7. THICKNESS OF OVERBURDEN			17. ELEVATION TOP OF HOLE		23.7	
8. DEPTH DRILLED INTO ROCK			18. TOTAL CORE RECOVERY FOR BORING		N/A	
9. TOTAL DEPTH OF HOLE 14.0' (EL. -37.1)			19. SIGNATURE OF INSPECTOR		D.G.H.	
			BRYANT & JONES			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1. CORE RECOVERY %	2. CORE SAMPLE NO.	REMARKS (Drilling time, water loss, depth of penetration, etc., if significant)
-23.1	1		(CL) GRAY SILTY CLAY (VERY SOFT)			<p>LAB TESTING</p> <p>JAR CLASS. LL PL PI</p> <p>1 (CH) 86 24 62, MA</p> <p>S_g = 2.64</p> <p>SAMPLE #1</p> <p>TORVANE-0.074 TSF</p> <p>PENETROMETER-0.0 TSF</p>
-30.1	2					
-30.6	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
-37.1	14				B.O.H.	

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PROJECT GULFPORT SHIP CHANNEL HOLE NO. GP-33-87
C-52 GULFPORT, MISSISSIPPI

DRILLING LOG		DIVISION	INSTALLATION		Hole No. GP-36-87
1. PROJECT GULFPORT SHIP CHANNEL GULFPORT, MISSISSIPPI		S.A.D	M.D.O.		SHEET 1 OF 1 SHEETS
2. LOCATION (Coordinates or Station) N 183.01 E 455.53 =		10. SIZE AND TYPE OF BIT VIBRACORE TUBE			
3. DRILLING AGENCY M.D.O.		11. DAYUM FOR ELEVATION SHOWN TOP OF M.D.O. MLLW			
4. HOLE NO. (As shown on drawing title and file number) GP-36-87		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE			
5. NAME OF DRILLER FULLER		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 3 UNDISTURBED -			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES -			
7. THICKNESS OF OVERBURDEN		15. ELEVATION GROUND WATER N/A			
8. DEPTH DRILLED INTO ROCK		16. DATE HOLE STARTED 7-22-87 COMPLETED 7-22-87			
9. TOTAL DEPTH OF HOLE 19.6' (EL. -54.3)		17. ELEVATION TOP OF HOLE - 34.7			
		18. TOTAL CORE RECOVERY FOR BORING N/A			
		19. SIGNATURE OF INSPECTOR D.G.H. BRYANT & JONES			

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	1 CORE RECOVERY BOX e	SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-34.7	0	(ML) DARK GRAY CLAYEY SILT (VERY SOFT)		115	1	LAB TESTING JAR CLASS 1 (CH) 2 (CH) 3 (SM)
-36.2	2					
-37.2	3					
-39.2	4.5	(CL) GRAY SILTY CLAY (VERY SOFT)		2	2	SAMPLE = 2 OR VALUE = 0.068 T.S.
-44.2	6					
-44.7	8					
-45.0	10.3					
-47.7	12	(SM) GRAY SILTY SAND (CLAYEY) (FIRM) W/SOME SHELL FRAGS		23	3	
-48.2	14					
-54.3	19.6					
		BCH				

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PROJECT GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI
HOLE NO. GP-36-87

Hole No. GP-37-87

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
SOUTH ATLANTIC		A 00		SHEET 1		OF 1 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL STUDY				10. SIZE AND TYPE OF BIT VIBRACORE			
2. LOCATION (Coordinates or Station) N. 176.987 E 459.906				11. DATUM FOR ELEVATION BROWN (FT) & MLLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE			
4. HOLE NO. (As shown on drawing Note and file number) GP-37-87				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER FULLER C				14. TOTAL NUMBER CORE BOXES N/A		15. ELEVATION GROUND WATER N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE 7-22-87		STARTED COMPLETED 7-22-87	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE -29.6			
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING N/A			
9. TOTAL DEPTH OF HOLE 13.5 (EL. -43.1)				19. SIGNATURE OF INSPECTOR DANIEL R. BRYANT			

ELEVATION e	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	W.C. H.C.	BOX OR SAMPLE NO. 1	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) f
-29.6						LAB TESTING JARK CLASS 1* (CH)
-32.6	30		(CL) GRAY SANDY CLAY (SOFT)	178	1	
-35.6	60				2	NOTE: THREE (3) SAMPLES, C 17 SEALED & SENT TO DIV LAB 0.0 2.0-CL 3.0 6.0-CL 6.0 7.0-CH
-38.6	90				3	
-39.1			(CH) GRAY FAT CLAY		1*	*SAMPLE #1 FOR ANE-COSTS = PENETROMETER 0.05 TSP
-41.6	20				2	
-43.1	135		(SM) GRAY SILTY SAND (MED)			

BOH 53

SAMPLE #		LABORATORY TESTING	
Visual Classification and/or Remarks			
1	El. 29.6-30.1 30.1-32.6	No Recovery Dk gray soft fat clay (CH) w/ trace of sand. Density taken @ El. 31.6, pcf=29 LL=117 PL=28 PI=98 % Passing 200 sieve=98	
2	32.6-35.6	Dk gray soft fat clay (CH) w/ trace of sand Density taken @ El. 34.6 pcf=37.7 % Passing 200 sieve =99.7	
3	35.6-38.6	Dk gray soft fat clay (CH) w/ trace of sand Density taken @ El. 37.6 pcf=41.7 % Passing 200 sieve = 99 LL=116 PL=32 PI=84	

DRILLING LOG		DIVISION	INSTALLATION	Hole No.		SHEET
PROJECT		SOUTH ATLANTIC	N 30	GP-38-87		1 OF 1 SHEETS
1. PROJECT		GULFPORT SHIP CHANNEL STUDY		10. SIZE AND TYPE OF BIT		VIBRA-CORE
2. LOCATION (Coordinates or Station)		N. 166968 E. 967043		11. DAY ON FOR ELEVATION SHOWN (Top or Bottom)		MLW
3. DRILLING AGENCY		MOBILE DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL		VIBRA-CORE
4. HOLE NO. (As shown on drawing Note and file number)		GP-38-87		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 1
5. NAME OF DRILLER		FULLER, C		14. TOTAL NUMBER CORE BOXES		N/A
6. DIRECTION OF HOLE		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER		N/A
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED 7-22-87 COMPLETED 7-22-87
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE		-32.5
9. TOTAL DEPTH OF HOLE		160 (EL. -98.5)		18. TOTAL CORE RECOVERY FOR BORING		N/A
				19. SIGNATURE OF INSPECTOR		Donlan E. Jones B. BRYANT
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	3-BOX OR 5-BOX SAMPLE NO.	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of penetration, etc., if significant)
-32.5	0		(CH) GRAY FAT CLAY (SOFT)	127	1	LAB TESTING JAR - CLASS II PLI 20 SEVE 1 (CH) 117 3087 99
-40.5	2.0					SAMPLE #1 TSS. ANE-C.03 TSF PENETROMETER- 0.2 TSF
-41.0						
-45.5	16.0					BOW 160

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PROJECT
GULFPORT SHIP
CHANNEL STUDY

HOLE NO.
GP-38-87

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
GULFPORT SHIP CHANNEL STUDY		SOUTH ATLANTIC		N 30		1 OF 1 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				VIBRACORE			
N. 163809 E. 469239				11. DAY OF YEAR FOR ELEVATION MEASUREMENT			
3. DRILLING AGENCY				MLW			
MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing and No. 100)				VIBRACORE			
GP-39-87				13. TOTAL NO. OF OVER-BOREHOLE SAMPLES TAKEN			
5. NAME OF DRILLER				DISTURBED UNDISTURBED			
FULLERC				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE				N/A			
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DES. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				N/A			
8. DEPTH DRILLED INTO ROCK				16. DATE HOLE			
9. TOTAL DEPTH OF HOLE 16.8 (EL. -50.4)				STARTED 7-22-87 COMPLETED 7-22-87			
				17. ELEVATION TOP OF HOLE -33.6			
				18. TOTAL CORE RECOVERY FOR BORING N/A			
				19. SIGNATURE OF INSPECTOR			
				Douglas B. Jones B. BRYANT			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	STONES RECOVERED W.C.	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-33.6			(CH) GRAY FAT CLAY (SOFT)		1	NOTE: TWO (2) SAMPLES CUT, SEALED & SENT TO DIV LAE 20.0 - 30.0 CH 30.0 - 40.0 CH LAB. TESTING JAR CLASS : (CH) * SAMPLE #1 TOP. ANE - 0.099 TSP PENETROMETER - 0.0 TSP
-36.6				119		
-39.6	6.0				2	
-43.6	10.0					
-44.1				12	1	
-50.4	16.8					BOX 69

LABORATORY TESTING		
SAMPLE #	Visual Classification and/or Remarks	
1	El. 33.6-34.1 No Recovery 34.1-36.6 Dk gray soft fat clay (CH) w/ trace of sand Density taken @ El. 35.6 pcf=39.5 Sp=12.7 % Passing 200 sieve = 99.8 LL=102 PL=29 PI=73	
2	36.6-39.6 Dk gray soft fat clay (CH) w/ trace of sand % Passing 200 sieve = 99.8	

DRILLING LOG		DIVISION		INSTALLATION		Hole No.	
PROJECT		SOUTH ATLANTIC		1.00		SHEET 1 OF 1 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
GULFPORT SHIP CHANNEL STUDY				VIBRACORE			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION SHOWN (TBM or MLLW)			
N. 161571 E. 471005				MLLW			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
MOBILE DISTRICT				VIBRACORE			
4. HOLE NO. (As shown on drawing title and file number)				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN			
GP-40-87				DISTURBED UNDISTURBED			
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES			
FULLER C				N/A			
6. DIRECTION OF HOLE				15. ELEVATION GROUND WATER			
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				N/A			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE			
				STARTED 7-22-87 COMPLETED 7-22-87			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE			
				-35.7			
9. TOTAL DEPTH OF HOLE				18. TOTAL CORE RECOVERY FOR BORING			
17.8 (EL. -53.5)				N/A			
				19. SIGNATURE OF INSPECTOR			
				Dawson B. Jones B. B. L. N.			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	W.C.	SAX OR SAMPLE NO.	REMARKS (Drifting time, water loss, depth of weathering, etc., if significant)	
-35.7						LAB TESTING	
						JAR CLASS:	
						1 (CH)	
-42.7	7.0						
-43.2							
			(CH) GRAY FAT CLAY (VERY SOFT)				
						SAMPLE #1	
						TRAVANE - 0.07 TSF	
						PENETROMETER - 0.0 TSF	
-53.5	17.8						
						BOH 17.8	

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PROJECT GULFPORT SHIP CHANNEL STUDY

HOLE NO. GP-40-87

State No. 27-42-87

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION DO		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL STUDY				10. SIZE AND TYPE OF BIT VIBRACORE			
2. LOCATION (Coordinates or Station) N. 169242 E 477507				11. BIT FOR ELEVATION INDICATION or MARK MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. DRILLER'S DESIGNATION OF DRILL VIBRACORE			
4. HOLE NO. (As shown on drawing and on marking) GP-42-87				13. TOTAL NO. OF OVER-BOREHOLE SAMPLES TAKEN 2		14. TOTAL NUMBER CORE BOXES N/A	
5. NAME OF DRILLER FULLER C				15. ELEVATION GROUND WATER N/A		16. DATE, HOLE STARTED 7-22-87 COMPLETED 7-22-87	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERT.				17. ELEVATION TOP OF HOLE -37.6			
7. THICKNESS OF OVERBURDEN				18. TOTAL CORE RECOVERY FOR BORING 13.4			
8. DEPTH DRILLED INTO ROCK				19. SIGNATURE OF INSPECTOR J. J. P. 102 B. E. A. N.			
9. TOTAL DEPTH OF HOLE 16.9 (EL. -57.2)							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Descriptive)	TESTS	BOX NO. SAMPLE NO.	REMARKS (Logging data, water level, depth of penetration, etc., if significant)	
-37.6						LAB TESTING JAR CLASS II PL PL 220344 1 (CH) 122 44 78 99	
-44.6	7.0		(CH) GRAY FAT CLAY (SOF)	125		SAMPLE #1 TCRVANE-0.07 PENETROMETER- 0.0 T.S.F.	
-52.5	14.9		(SM) GRAY SILTY SAND FINE GRAIN (DENSE)		2	BCH 16.9	
-54.5	16.9						

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PROJECT GULFPORT SHIP CHANNEL STUDY

HOLE NO. GP-42-87

DRILLING LOG		WATER		INSTALLATION		SHEET	
PROJECT		LOCATION		DATE		OF 2 SHEETS	
GULFPORT SHIP CHANNEL STUDY		N 175416 E 990989		N 15		SHEET 1	
DRILLING AGENCY		MOBILE DISTRICT		VIBRACORE		VIBRACORE	
HOLE NO. (As shown on drawing title and file number)		GP-45-87		TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		3	
NAME OF DRILLER		FULLER C		TOTAL NUMBER CORE BOXES		N/A	
DIRECTION OF HOLE		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		ELEVATION GROUND WATER		N/A	
THICKNESS OF OVERBURDEN				DATE HOLE		7-23-87	
DEPTH DRILLED INTO ROCK				ELEVATION TOP OF HOLE		-36.7	
TOTAL DEPTH OF HOLE		20.0 (EL. -56.7)		TOTAL CORE RECOVERY FOR BORING		N/A	
				SIGNATURE OF INSPECTOR		B. BRYANT	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	W.C.	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of penetration, etc., if significant)	
-36.7			(CH) GRAY FAT CLAY	151	1	NOTE: SAMPLE CUT, SECT. SENT TO D.N. LAB.	
-39.7	30					LAB. TESTING	
-44.7	10.0		(CH) GRAY FAT CLAY (SDF)	104	#1	SAMPLE #1 TRIAXIAL-CUTTER PENETROMETER-CUTTER	
-47.2							
-53.7	170				2		
-51.7	180		SP. GRAY SILT. SAND (MED)				
-55.7	190		(CH) GRAY SILT. SAND (SDF)	89	#3	SAMPLE #3 TRIAXIAL-CUTTER PENETROMETER-CUTTER	
-56.7	20.0		(SEE LAB DATA SHEET 2)			BOX 200	

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PROJECT
GULFPORT SHIP
CHANNEL STUDY

HOLE NO.
GP-45-87

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE - 36.7		Hole No. GP-45-87		
PROJECT GULFPORT SHIP CHANNEL STUDY			INSTALLATION MDO		SHEET 2 OF 2 SHEETS	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV. e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
SAMPLE			LABORATORY TESTING			
0			Visual Classification and/or Remarks			
1			El. 36.7-39.7 Density taken @ El. 38.7 pcf=33.2 LL=116 PL=38 PI=78 MA, WY			

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
PROJECT		SOUTH ATLANTIC		JO		OF 1 SHEETS	
GULFPORT SHIP CHANNEL STUDY				VIBRACORE			
LOCATION (Continuation of Sheet)		N 182576 E 486564		MLW			
DRILLING AGENCY		MOBILE DISTRICT		VIBRACORE			
HOLE NO. (As shown on drawing info and log number)		GP-48-87		TOTAL NO. OF CORE SAMPLES TAKEN		DISTURBED 2 UNDISTURBED	
NAME OF DRILLER		FULLER C		TOTAL NUMBER CORE BOXES		N/A	
DIRECTION OF HOLE		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		ELEVATION GROUND WATER		N/A	
THICKNESS OF OVERBURDEN				DATE HOLE		STARTED 7-23-87 COMPLETED 7-23-87	
DEPTH DRILLED INTO ROCK				ELEVATION TOP OF HOLE		-31.7	
TOTAL DEPTH OF HOLE		8.1 (EL. -39.8)		TOTAL CORE RECOVERY FOR BORING		N/A	
				SIGNATURE OF INSPECTOR		J. K. Jones R. E. Ryan	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Descriptive)	1 CORE RECOVERY	2 CORE RECOVERY	REMARKS (Drilling time, water loss, depth of penetration, etc., if significant)	
-31.7	0						
-34.4	2.7		(MH) GRAY INORGANIC SILT (SOFT)	137	1	SAMPLE #1 TORRANE-0.03TSF PENETROMETER- 0.0 TSF	
-37.2	5.5					LAB TESTING JAE GLLS LI PL PI (CH) 114 29 85 2 - - - - MA	
-37.9	6.2				2		
-38.4			SM GRAY SILTY SAND (MED)				
-39.8	8.1					BOH 8.1	

Note No. GP-50-87

DRILLING LOG		DIVISION		LOCATION		SHEET	
SOUTH ATLANTIC				1.00		OF 1 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL STUDY				10. SIZE AND TYPE OF BIT VIBRACORE			
2. LOCATION (Geographic or Station) N. 183277 E. 482791				11. DATUM FOR ELEVATION MEASUREMENT MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. TYPE OF MEDIUM'S DESCRIPTION OF DRILL VIBRACORE			
4. HOLE NO. (As shown on drawing sheet and site number) GP-50-87				13. TOTAL NO. OF OVER-BOURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BORDS	
				2		N/A	
5. NAME OF DRILLER FULLER C				15. ELEVATION GROUND WATER		N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE STARTED 7-23-87 COMPLETED 7-23-87		17. ELEVATION TOP OF HOLE -29.8	
7. THICKNESS OF OVERBURDEN				18. TOTAL CORE RECOVERY FOR BORING N/A			
8. DEPTH DRILLED INTO ROCK				19. SIGNATURE OF INSPECTOR B BRYANT			
9. TOTAL DEPTH OF HOLE 14.6 (EL. -44.4)							
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	W.C. e	PER. OF SAMPLE f	REMARKS (Drilling time, water level, depth of penetration, etc., if significant) g	
-29.8						LAB TESTING JAR CLASS. II PL. PI. 200X18 1 (CH) 118 2989 98	
-36.5 -37.6	6.7		(CL) GRAY SILTY CLAY (V. SOFT)	33	1	SAMPLE #1 T.F. AVE - 0.07 PENETROMETER - 0.0 T.S.F.	
-43.3	135						
-44.4	14.6		(SM) GRAY SILTY SAND (MED)		2	BOTH 14.6	

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PROJECT
GULFPORT SHIP
CHANNEL STUDY

HOLE NO.
GP-50-87

DRILLING LOG		DIVISION		METALLOGY		Plate No.	
PROJECT		SOUTH ATLANTIC		100		SHEET 1 OF 2 SHEETS	
GULFPORT SHIP CHANNEL STUDY				10. SIZE AND TYPE OF BIT			
N. 191509 E. 480645				VIBRACORE			
1. DRILLING AGENCY				11. DRILLING FIRM ELEVATION ABOVE (FEET) G.M.S.			
MOBILE DISTRICT				MLW			
2. HOLE NO. (As shown on drawing and log number)				12. MANUFACTURER'S DESIGNATION OF DRILL			
GP-51-87				VIBRACORE			
3. NAME OF DRILLER				13. TOTAL NO. OF OVER-BOURDEN SAMPLES TAKEN			
FULLER C				2			
4. SECTION OF HOLE				14. TOTAL NUMBER CORE BOXES			
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED				N/A			
5. THICKNESS OF OVERBURDEN				15. ELEVATION GROUND WATER			
6. DEPTH DRILLED INTO ROCK				N/A			
7. TOTAL DEPTH OF HOLE				16. DATE HOLE			
20.3 (EL. -47.2)				7-22-87			
8. ELEVATION TOP OF HOLE				17. ELEVATION TOP OF HOLE			
-26.9				-26.9			
9. TOTAL CORE RECOVERY FOR BORING				18. SIGNATURE OF INSPECTOR			
N/A				B. BRYANT			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Descriptive)	TESTS	DOES ON SAMPLE NO.	REMARKS (Drilling time, water level, depth of penetration, etc., if significant)	
-26.9							
-29.9	3.0		(SM) GRAY SILTY SAND FINE GRAIN (MED)		1	LAB TESTING MAR CLASS. U.P. PL. 200-SIEVE 1 (SP) NPHNPH - MA 2 (SM) NPHNPH IS	
-33.4	6.5						
-37.9							
-38.4			(ML) GRAY SANDY SILT (CLAYEY) (FIRM)		2		
-46.9	20.0						

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PROJECT
GULFPORT SHIP
CHANNEL STUDY

HOLE NO.
GP-51-87

DRILLING LOG		REGION SOUTH ATLANTIC		INSTALLATION M O		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL STUDY				10. SIZE AND TYPE OF BIT VIBRACORE			
2. LOCATION (Coordinates or Name) N. 195070 E 478530				11. DATUM FOR ELEVATION MEASUREMENT MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESCRIPTION OF DRILL VIBRACORE			
4. HOLE NO. (As shown on drawing and on file number) GP-52-87				13. TOTAL NO. OF CORES DISTURBED 1 UNDISTURBED 0			
5. NAME OF DRILLER FULLER, C				14. TOTAL NUMBER CORE BOXES N/A			
6. SECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 7-23-87 COMPLETED 7-23-87			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -21.6			
9. TOTAL DEPTH OF HOLE 17.0 (EL. -38.6)				18. TOTAL CORE RECOVERY FOR BORING N/A			
				19. SIGNATURE OF INSPECTOR Douglas B. Jones B. BRYANT			

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	NO. OF CORE RECOVERED e	NO. OF SAMPLES f	REMARKS (Logging data, water level, depth of penetration, etc., if significant) g
-21.6					1	
-24.6					2	NOTE FIVE (5) SAMPLES CUT SEALED & SENT TO DIV LAB
-27.6			(SP) GRAY POORLY GRADED SAND		3	0.0-3.0 SP 3.0-6.0 " 6.0-9.0 " 9.0-12.0 " 12.0-15.0 SM
-30.6					4	LAB TESTING JAR GLASS 1" (SM)
-33.6					5	
-36.6	15.0		(SM) GRAY SILTY SAND		1*	
-37.1						
-38.6	17.0					

SAMPLE #		LABORATORY TESTING	
Visual Classification and/or Remarks			
2	El. 24.6-27.6	Gray poorly graded sand (SP)	
3	27.6-30.6	Density taken @ El. 29.6 pcf=84.2	
4	30.6-33.6	Gray poorly graded sand (SP) w/ shell fragments	
5	33.6-36.6	Density taken @ El. 35.6 pcf=90.3	

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PROJECT GULFPORT SHIP CHANNEL STUDY
HOLE NO. GP-52-87

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
SOUT. ATLANTIC		A JO		GP-53-2		OF 1 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL STUDY							
2. LOCATION (Continuation of Form 1) N 198156 E 479220							
3. DRILLING AGENCY MOBILE DISTRICT							
4. HOLE NO. (As shown on drawing sheet and log number) GP-53-B7				5. SIZE AND TYPE OF BIT VIBRACORE			
				6. ELEVATION OF ELEVATION MARK (FEET - DEC)			
				7. ELEVATION OF ELEVATION OF HILL MLW			
				8. TOTAL NO. OF CORES DISTURBED 2 UNDISTURBED			
				9. TOTAL NUMBER CORE BOXES N/A			
				10. ELEVATION GROUND WATER N/A			
11. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				12. DATE HOLE STARTED 7-23-87 COMPLETED 7-23-87			
13. THICKNESS OF OVERBURDEN				14. ELEVATION TOP OF HOLE -20.2			
15. DEPTH DRILLED INTO ROCK				16. TOTAL CORE RECOVERY FOR BORING N/A			
17. TOTAL DEPTH OF HOLE 15.2 (EL. -35.4)				18. SIGNATURE OF INSPECTOR B BRYANT			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	NO. OF CORES e	NO. OF SAMPLES f	REMARKS (Drilling logs, water level, depth of penetration, etc., if significant)	
-20.2							
-24.2	4.0		(SM) GRAY SILTY SAND W/ TR (CH) LAYERS & SHELL FRAGS (FIRM.)	27	1		
-28.5	8.3						
-31.2	11.0		(CH) GRAY FAT CLAY W/ TR (SM) LAYERS (SOFT)	50	2	SAMPLE #2 FOR AVE-C. TSP PENETROMETER- 0.25 TSP	
-35.4	15.2					BOTH 15.2	

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PROJECT
GULFPORT SHIP
CHANNEL STUDY

HOLE NO.
GP-53-3;

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
SOUT. ATLANTIC				1 JO		OF 1. SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL STUDY				10. SIZE AND TYPE OF BIT VIBRACORE			
2. LOCATION (Continence or Station) N 200000 E 475008				11. SURFACE ELEVATION (Feet or Meters) MLLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. DRILLING METHOD / DESCRIPTION OF DRILL VIBRACORE			
4. HOLE NO. (As shown on drawing sheet and file number) GP-54-87				13. TOTAL NO. OF OVER-BOURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BONES	
				RETURNED 1		UNDISTURBED -	
5. NAME OF DRILLER FULLERC				15. ELEVATION GROUND WATER N/A		16. DATE HOLE	
						STARTED 7-25-87 COMPLETED 7-25-87	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				17. ELEVATION TOP OF HOLE -8.6			
7. THICKNESS OF OVERBURDEN				18. TOTAL CORE RECOVERY FOR BORING N/A			
8. DEPTH DRILLED INTO ROCK				19. SIGNATURE OF INSPECTOR			
9. TOTAL DEPTH OF HOLE 12.0 (EL. -20.6)				DANIEL B. BRYANT B BRYANT			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	SCORE NO. OR	REMARKS (Drilling time, water loss, depth of penetration, etc., if significant)
a	b	c	d	e	f
-8.6					
-14.1					
-14.6			(SP) G.F.A. POORLY GRADED SAND (MED)	1	
-20.6	12.0				

LAB. TESTING
 JAR CLASS F, FI
 1 (SP) NP NP NP, MA

BCH 120

DRILLING LOG		DIVISION		INSTALLATION		Hole No. GP-55-37	
SOUT ATLANTIC		MLJ		SHEET 1		OF 2 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL STUDY				13. HSE AND TYPE OF BIT VIBRACORE			
2. LOCATION (Coordinates or Station) N. 202585 E 473526				14. DATE AND TIME OF ELEVATION MEASUREMENT MLW			
3. DRILLING AGENCY MOBILE DISTRICT				15. LOG OF OPERATOR'S DESIGNATION OF HOLE VIBRACORE			
4. HOLE NO. (As shown on drawing and BIV marked) GP-55-87				16. TOTAL NO. OF OVER-BORE SAMPLES TAKEN 3		17. TOTAL NO. OF OVER-BORE SAMPLES TAKEN 3	
5. NAME OF DRILLER FULLERC				18. TOTAL OVERBORE CORE DEPTH N/A		19. ELEVATION GROUND WATER N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				20. DATE HOLE 7-25-87		21. DATE HOLE 7-25-87	
7. THICKNESS OF OVERBURDEN				22. ELEVATION TOP OF HOLE -14.3			
8. DEPTH DRILLED INTO ROCK				23. TOTAL CORE RECOVERY FOR BORING N/A			
9. TOTAL DEPTH OF HOLE 24.2 (EL. -38.5)				24. SIGNATURE OF INSPECTOR Douglas B. Bryant			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	LOG NO. e	LOG NO. f	REMARKS (Drilling time, water level, depth of overburden, etc., if applicable) g	
-14.3							
-16.0	1.7		(SP) LT GRAY POORLY GRADED SAND (MED,		1	LAB TESTING CLASS 1: P: P: 1 (SP) - - - 2 (CH) - - - 3 (SP) - - - NP, MA	
-16.5							
-18.0	3.7						
-20.5	6.2		(CH) GRAY FAT CLAY (SOFT)	13C	2	SAMPLE #2 TOP. WAVE - 0.064 TSF PENETROMETER - C.O TSF	
-21.0							
-23.3	9.0						
-30.8	16.5		(SP) LT GRAY POORLY GRADED SAND		3		
-31.5							
-34.3	22.0						

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PROJECT
GULFPORT SHIP
CHANNEL STUDY

Hole No.
GP-55-37



DRILLING LOG		PROJECT		LOCATION		DATE	
SOUT. ATLANTIC		M. J.		M. J.		M. J.	
1. PROJECT GULFPORT SHIP CHANNEL STUDY				2. SIZE AND TYPE OF BIT VIBRACORE			
3. LOCATION N. 204893 E 471925				11. DATE FOR ELEVATION MEASUREMENT MLW			
4. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF BIT VIBRACORE			
5. HOLE NO. (As shown on drawing and log number) GP-56-87				13. TOTAL NO. OF OVER-BOREHOLE SAMPLES TAKEN 3		14. TOTAL NUMBER CORE BOXES N/A	
6. NAME OF DRILLER FULLER C				15. ELEVATION GROUND WATER N/A		16. DATE HOLE STARTED 7-24-87 COMPLETED 7-24-87	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE -14.6		18. TOTAL CORE RECOVERY FOR BORING N/A	
8. DEPTH DRILLED INTO ROCK				19. SIGNATURE OF INSPECTOR DANIEL R. ONE B BRYANT			
9. TOTAL DEPTH OF HOLE 30.0 (EL. -14.6)							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (See Appendix)	W.C.	NO. OF SAMPLES	REMARKS (Drilling time, water loss, change of recording, etc., if significant)	
-14.6						LAB TESTING JAR CLASS LL PL PL 7 PASS 1 (SP) NP NP NP - 2 (SC-H) - - - - 3 (SC) 35 16 :9 43	
-20.1	5.5		(SP) LT GR. POORLY GRAINED SAND (MED)		1		
-20.6							
-33.5	18.9		(FV) - F GRAY SILTY SAND (CLAYEY) (DENSE)				
-34.6							

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PROJECT
GULFPORT SHIP
CHANNEL STUDY

DATE
GP-56-87

DRILLING LOG (Cont. Sheet)		STATION TOP OF HOLE -14.6		Hole No. GP-56-87		
PROJECT GULFPORT SHIP CHANNEL STUDY			INSTALLATION MOBILE DISTRICT		SHEET 2 OF 2 SHEETS	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	WIDE AREA NO. C	BOX OR SAMPLE NO. F	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-34.6	b	c	d			
-35.6	21.0		(SM) LT GRAY SILTY SAND (CLAYEY) (DENSE)	21	2	
-36.1						
-39.6	25.0		(CH) LT GRAY FAT CLAY (SOFT)			
-40.6	26.0			26	3	SAMPLE #3 TORVANE - 0.2 TSF PENETROMETER - 0.9 TSF
-41.1						
-44.6	30.0					BOH 30.0

DRILLING LOG		DIVISION		INSTALLATION		Hole No.		SHEET	
PROJECT		SOUTH ATLANTIC		N JO		37-31-3		1 OF 2 SHEETS	
GULFPORT SHIP CHANNEL STUDY				10. SIZE AND TYPE OF BIT		VIBRACORE			
LOCATION (Coordinates or Station)		N 208462 E. 466 044		11. DAYON FOR ELEVATION ABOVE (FEET or METERS)		MLW			
DRILLING AGENCY		MOBILE DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL		VIBRACORE			
HOLE NO. (As shown on drawing and file number)		QP-57-87		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		5		UNDISTURBED	
NAME OF DRILLER		FULLER C		14. TOTAL NUMBER CORE BOXES		N/A			
DIRECTION OF HOLE		VERTICAL <input checked="" type="checkbox"/> INCLINED <input type="checkbox"/> DES. FROM VERT.		15. ELEVATION GROUND WATER		N/A			
THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED 7-24-87 COMPLETED 7-24-87			
DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE		-15.1			
TOTAL DEPTH OF HOLE		28.5 (EL. -43.6)		18. TOTAL CORE RECOVERY FOR BORING		N/A			
				19. SIGNATURE OF INSPECTOR		Dawson R. Lane		B BRYANT	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	BOX NO.	BOX OF SAMPLE NO.	REMARKS (Drilling time, water loss, depth of penetration, etc., if appropriate)			
-15.1			(ML) DK GRAY CLAYEY SILT (SOFT)	76	1	LAB. TESTING JAR CLASS. 1 (CH) 2 (SM) 3 (CH) 4 (SC-H) 5 (SP)			
-17.5	2.4								
			(SM) DK. GRAY SILTY SAND (CLAYEY MED)	29	2				
-24.9	9.8			63	3	SAMPLE #3 TORVANE-0.119 TSF PENETROMETER-0.25 TSF			
			(CH) GRAY FAT CLAY (SOFT)						
-30.7	15.6			30	4				
			(SM) GRAY SILTY SAND (MED)						
-35.1	20.0								

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PROJECT
GULFPORT SHIP
CHANNEL STUDY

HOLE NO.
QP-57-87

DRILLING LOG (Cont Sheet)			TION, TOP OF HOLE -15.1		Hole No. GP-57-87	
PROJECT GULFPORT SHIP CHANNEL STUDY			INSTALLATION MOBILE DISTRICT		SHEET 2 OF 2 SHEETS	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX, OR SAMPLE NO.	REMARKS (Drilling time, water level, depth of weathering, etc., if significant)
-35.1	20.0					
-35.7	20.6		(SM) GRAY SILTY SAND (MED)			
			(SP) LT GRAY POORLY GRADED SAND (MED)		5	
-43.6	28.5					BOH 28.5

NO FORM 1836-A
APR 67

SPR 1000 OF 1000

PROJECT GULFPORT SHIP CHANNEL STUDY

HOLE NO GP-57-87

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
SOUTH ATLANTIC		100		1		OF 2 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL STUDY							
2. LOCATION (City, State or Station) N 21183 E. 460618							
3. DRILLING AGENCY MOBILE DISTRICT							
4. HOLE NO. (As shown on charting note and file number) GP-58-87							
5. NAME OF DRILLER FULLER C							
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.							
7. THICKNESS OF OVERBURDEN							
8. DEPTH DRILLED INTO ROCK							
9. TOTAL DEPTH OF HOLE 30.0 (EL. -44.9)							
10. SIZE AND TYPE OF BIT VIBRACORE							
11. DAY OF ELEVATION (TIME or MSL) MLW							
12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE							
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN 3							
14. TOTAL NUMBER CORE BOXES N/A							
15. ELEVATION GROUND WATER N/A							
16. DATE HOLE STARTED 7-24-87 COMPLETED 7-24-87							
17. ELEVATION TOP OF HOLE -14.9							
18. TOTAL CORE RECOVERY FOR BORING N/A							
19. SIGNATURE OF INSPECTOR DANIEL J. LANE B BRIANT							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water flow, depth of penetration, etc., if significant)	
-14.9	0.0					LAB. TESTING	
						JAR CLASS LL PL PL POSSIBLE	
						1 (SP) NP NP NP -MA	
						2 (CH) - - - 70	
						3 (SP.SM) - - - -	
-19.9	5.0				1		
-20.4							
			(SP) LT GRAV POSS. GRADE 2 SAND (MED.				
-29.7	14.8						
-34.9	20.0						

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PROJECT
GULFPORT SHIP
CHANNEL STUDY

HOLE NO.
GP-58-87

DRILLING LOG (Cont Sheet)		FROM TOP OF HOLE - 14.9		Hole No. GP-58-8		
PROJECT GULFPORT SHIP CHANNEL STUDY		INSTALLATION MOBILE DISTRICT		SHEET 2 OF 2 SHEETS		
ELEVATION a	DEPTH Z 20.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-34.9			(CH) GRAY FAT CLAY (SOFT)	70	2	SAMPLE #2 TORVANE - 0.25 T.S.F. PENETROMETER - 0.18 T.S.F.
-35.9	21.0					
-36.4						
-42.4	27.5		(SM) SILTY SAND (MED)		3	
-42.9	28.0					
-43.4						
-44.9	30.0					Box 300

ENG FORM 1836-A
JAN 57

OPS 1460 GP-58-8-1

PROJECT
GULFPORT SHIP
CHANNEL STUDY

Hole No.
GP-58-8

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
SOUT. ATLANTIC		100		OF 2 SHEETS			
1. PROJECT GULFPORT SHIP CHANNEL STUDY				10. SIZE AND TYPE OF BIT VIBRACORE			
2. LOCATION (Coordinates or Station) N. 213524 E 956215				11. DATUM FOR ELEVATION MEASUREMENT MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE			
4. HOLE NO. (As shown on drawing and log) GP-59-87				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN	
5. NAME OF DRILLER FULLER C				14. TOTAL NUMBER CORE BOXES N/A		15. ELEVATION GROUND WATER N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE STARTED 7-24-87 COMPLETED 7-24-87		17. ELEVATION TOP OF HOLE -15.0	
7. THICKNESS OF OVERBURDEN				18. TOTAL CORE RECOVERY FOR BORING		19. SIGNATURE OF INSPECTOR B. B. [Signature]	
8. DEPTH DRILLED INTO ROCK				20. TOTAL DEPTH OF HOLE 28.4 (EL. -13.4)			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	SCORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of penetration, etc., if significant)	
-15.0				72	1	NOTE. SAMPLE # ONE (1) CUT SEALED & SENT TO CIV LAB	
-18.0	3.0					LAB. TESTING	
-21.0	6.0		(SM) GRAY SILTY SAND (CLAYEY) (LD)			JAN. CLASS. % PASSING 200 SIEVE	
-21.5						1 (SM) - 2 (CH) GB 3 (SP. SM) VIBRACORE SAMP CLASS LL PL PI	
-24.5	9.5					1 (SC-H) 58 16 42 VA 2 (CL) 36 16 20 MA 3 - - - - MA	
-26.0				6	2	NOTE. SAMPLE # 2 TWO (2) CUT SEALED & SENT TO CIV LAB	
-26.5			(CH) GRAY FAT CLAY (SOFT)			2.1 T.S.F.	
-30.0	15.0			1	2	NOTE. SAMPLE # TWO (2) CUT SEALED & SENT TO CIV LAB	
-33.0	18.0					NOTE. SAMPLE # THREE (3) CUT SEALED & SENT TO CIV LAB	
-35.0	22.0		(SF)	1	3		

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(TRANSLUCENT)

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PROJECT
GULFPORT SHIP
CHANNEL STUDY

HOLE NO.
GP-59-87

DRILLING LOG (Cont Sheet)		LOCATION TOP OF HOLE -15.0		Hole No. GP-59-37									
PROJECT GULFPORT SHIP CHANNEL STUDY		INSTALLATION MOBILE DISTRICT		SHEET 2 OF 2 SHEETS									
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.								
-35.0	20.0	c											
-36.0	21.0		(SP)										
-36.5					3*								
			(SP) LT GRAY POORLY GRADED SAND (MED)										
-43.4	28.4												
<p>NOTE: SEE SEPARATE INSTRUCTION FOR VISUAL ON SEALED SAMPLES.</p>													
<p>LABORATORY TESTING</p> <p>Visual Classification and/or Remarks</p> <table border="1"> <thead> <tr> <th>SAMPLE #</th> <th>Visual Classification and/or Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>El. 15.0-18.0 Density taken @ El. 17.0 pcf=58.9 LL=58 PL=16 PI=42 spg=2.61</td> </tr> <tr> <td>2</td> <td>30.0-33.0 Density taken @ El. 32.0 pcf=89.7 LL=36 PL=16 PI=20 spg=2.67</td> </tr> <tr> <td>3</td> <td>33.0-36.0 Density taken @ El. 35.0 pcf=96.1</td> </tr> </tbody> </table>						SAMPLE #	Visual Classification and/or Remarks	1	El. 15.0-18.0 Density taken @ El. 17.0 pcf=58.9 LL=58 PL=16 PI=42 spg=2.61	2	30.0-33.0 Density taken @ El. 32.0 pcf=89.7 LL=36 PL=16 PI=20 spg=2.67	3	33.0-36.0 Density taken @ El. 35.0 pcf=96.1
SAMPLE #	Visual Classification and/or Remarks												
1	El. 15.0-18.0 Density taken @ El. 17.0 pcf=58.9 LL=58 PL=16 PI=42 spg=2.61												
2	30.0-33.0 Density taken @ El. 32.0 pcf=89.7 LL=36 PL=16 PI=20 spg=2.67												
3	33.0-36.0 Density taken @ El. 35.0 pcf=96.1												



DRILLING LOG		DIVISION		INSTALLATION		HOLE NO.		SHEET	
SOUTH ATLANTIC		N.O.O.		N.O.O.		N.O.O.		OF 2 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL STUDY									
2. LOCATION (Coordinates or Station) N. 214989 E 452656									
3. DRILLING AGENCY MOBILE DISTRICT									
4. HOLE NO. (As shown on drawing title and log number) GP-60-87									
5. NAME OF DRILLER FULLER C									
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.									
7. THICKNESS OF OVERBURDEN									
8. DEPTH DRILLED INTO ROCK									
9. TOTAL DEPTH OF HOLE 25.5 (EL. -41.3)									
10. SIZE AND TYPE OF BIT VIBRACORE									
11. DAYTON FOR ELEVATION ABOVE (FEET or M) MLW									
12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE									
13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN 6									
14. TOTAL NUMBER CORE BOXES N/A									
15. ELEVATION GROUND WATER N/A									
16. DATE HOLE STARTED 7-24-87 COMPLETED 7-24-87									
17. ELEVATION TOP OF HOLE -15.8									
18. TOTAL CORE RECOVERY FOR BORING N/A									
19. SIGNATURE OF INSPECTOR D. B. BRANT									
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	MOORE STAMP NO.	SOI OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of penetration, etc., if significant)			
-15.8									
-17.3	1.5		(ML) GRA: CLAYEY SILT		1	LAB. TESTING JAR CLASS LL PL PL 25/50/100 1 (CH) - - - - 2 (SC) - - - - 3 (CH) 60 1842 61 4 - - - - - 5 (CH) 55 16 39 50 6 (SM) - - - -			
-17.8			(SANDY) FIRM,						
-18.3	2.5								
-19.3	3.5								
-19.8			(SM) GRA: SILTY SAND		2				
-21.3	5.5		(MED)						
-24.8	11.0		(CH) GRAY FAT CLAY		3	SAMPLE #3 TORRANE-CLOS PENETROMETER- C.O. TSF			
-27.3			(SOFT)						
-29.1	13.3								
-30.8	15.0			47	4				
-31.3			SM, GRA: SILTY SAND						
-33.7	17.9		CLAYEY (D)						
-35.8			(CH) GRAY FAT CLAY W/ SOME						
			MOD FINE						
			(VERY FINE)						

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PROJECT
GULFPORT SHIP
CHANNEL STUDY

HOLE NO.
GP-60-2

DRILLING LOG (Cont Sheet)		TOWN TOP OF HOLE - 15.8		Hole No. GP-60-97		
PROJECT GULFPORT SHIP CHANNEL STUDY		INSTALLATION MOBILE DISTRICT		SHEET 2 OF 2 SHEETS		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc. if significant)
-35.8	20.0		(CH) GRAY FAT CLAY W/ SOME WOOD FRAGS (VERY SOFT)	49	5	SAMPLE #5 TORVANE - 0.12 T.S.F. PENETROMETER - 0.0 T.S.F.
-36.8	21.0					
-37.3						
-39.3	23.5		(SM) GRAY SILTY SAND (MED)		6	60H255
-40.3						
-40.8						
-41.3	25.5					

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
SOU. ATLANTIC		A 30		OF 1 SHEETS			
1. PROJECT GULFPORT SHIP CHANNEL STUDY				10. SIZE AND TYPE OF BIT VIBRACORE			
2. LOCATION (Coordinates or Section) N. 251.975 E. 419.117				11. DAYTON FOR ELEVATION BROWN (FEET or METER) MILLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE			
4. HOLE NO. (As shown on drawing and in file number) GP-61-87				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES	
				DISTURBED 4		UNDISTURBED N/A	
5. NAME OF DRILLER FULLER C				15. ELEVATION GROUND WATER N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE STARTED 7-19-87 COMPLETED 7-19-87			
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE -11.6			
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING N/A			
9. TOTAL DEPTH OF HOLE 20.0 (EL. -31.6)				19. SIGNATURE OF INSPECTOR D. B. BRIANT			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	W.C. e	W.C. f	REMARKS (Drilling time, water loss, depth of penetration, etc., if significant)	
-11.6							
-14.6	3.0		(ML) BLK CLAYEY SILT (SOFT)	.62	1	LAB TESTING JAR CLASS II PL PL 200 SKYE 1 (C-) .03 24 79 81 2 (CC) 44 19 25 45 3 (CL) 47 15 32 69 4 (CL) 28 19 9 78	
-15.1							
-18.1	6.5					SAMPLE #3	
-18.6	7.0			53	2	TORVANE-0.18 TSF	
-19.1						PENETROMETER- C.U. TSF	
-23.8	12.2		(CL) GRAY SILTY CLAY (SANDY) W/ SOME SHELLS (FIRM)				
-26.8	15.2		(CH) GRAY FAT CLAY (FIRM)	53	3	SAMPLE #2	
-27.3						TORVANE-0.36 TSF	
-27.9	16.2					PENETROMETER- C.U. TSF	
-29.4	17.8		(M) GRAY FAT CLAY CLAYEY SILT W/ TSF ROCK	25	4		
-29.9							
-31.6	20.0						

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PROJECT
GULFPORT SHIP
CHANNEL STUDY

HOLE NO.
GP-61-3

DRILLING LOG		DIVISION		INSTALLATION		Hole No. 5-0-5	
PROJECT		SOUT. ATLANTIC		100		SHEET 1 OF 1 SHEETS	
1. PROJECT		GULFPORT SHIP CHANNEL STUDY		10. SIZE AND TYPE OF BIT		VIBRA-CORE	
2. LOCATION (Coordinates or Name)		N. 250,327 E. 412.600		11. DATUM FOR ELEVATION MEASUREMENT		MLLW	
3. DRILLING AGENCY		MOBILE DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL		VIBRA-CORE	
4. HOLE NO. (As shown on drawing sheet and log number)		GP-62-87		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISTURBED 3 UNDISTURBED	
5. NAME OF DRILLER		FULLER C		14. TOTAL NUMBER CORE BOXES		N/A	
6. DIRECTION OF HOLE		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER		N/A	
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED 7-19-87 COMPLETED 7-19-87	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE		-33.8	
9. TOTAL DEPTH OF HOLE		13.4 (EL. -52.2)		18. TOTAL CORE RECOVERY FOR BORING		N/A	
				19. SIGNATURE OF INSPECTOR		Douglas E. Jones 22P-4N	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	SCORE RECOVERY e	SOIL OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
-33.8							
-36.3	2.5		(SD) LT GRAY POORLY GRADED SAND (MED)		1	LAB TESTING JAN GLASS 1 - MA 2 (CH) 3 (SM)	
-36.8							
-38.6	4.8						
-42.8	9.0		(CH) GR. F4-1 (30FT)	25	2	SAMPLE #2 TORVANE-0.15 TSF PENETROMETER- 0.25 T.S.F.	
-43.5							
-46.3	12.5						
-47.3							
-47.8			(ML) GRAY CLAY 3:1:1 (FIRM)	25	3		
-52.2	18.4						

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PROJECT HOLE NO.
GULFPORT SHIP CHANNEL STUDY GP-62-87

DRILLING LOG		DIVISION	INSTALLATION	Hole No. 5-42-2		
1. PROJECT		SOJ: ATLANTIC	M 10	SHEET 1 OF 1 SHEETS		
2. LOCATION (Coordinates or Station)		GULFPORT SHIP CHANNEL STUDY				
3. DRILLING AGENCY		MOBILE DISTRICT				
4. HOLE NO. (As shown on drawing and its number)		GP-63-87				
5. NAME OF DRILLER		FULLERC				
6. DIRECTION OF HOLE		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				
7. THICKNESS OF OVERBURDEN		10. SIZE AND TYPE OF BIT: VIBRACORE				
8. DEPTH DRILLED INTO ROCK		11. SAYUM FOR ELEVATION SHOWN (Top of Bore): MLLW				
9. TOTAL DEPTH OF HOLE		12. MANUFACTURER'S DESIGNATION OF DRILL: VIBRACORE				
13.2 (EL.-53.0)		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: 1				
		14. TOTAL NUMBER CORE BOXES: N/A				
		15. ELEVATION GROUND WATER: N/A				
		16. DATE HOLE: 7-22-87				
		17. ELEVATION TOP OF HOLE: -34.8				
		18. TOTAL CORE RECOVERY FOR BORING: N/A				
		19. SIGNATURE OF INSPECTOR: Darius P. B. 4 NT				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of overburden, etc., if significant)
-34.8						LAB TESTING CLASS II PL PI 1 (CH) 123 40 83, MA, HY
-45.3	10.5		(CH) GRAY FAT CLAY (SOFT)	117	1	SAMPLE #1 TORIANE-C.2 TSF PENETR. METER- 0.1 TSF
-45.8						
-53.0	18.2					B.O.H. 2

N 201,063 E 452,063

BORING LOG-S		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT GULFPORT SHIP CHANNEL		South Atlantic	Mobile District	
2. LOCATION (Coordinates or Station) GULFPORT, MISSISSIPPI			10. SIZE AND TYPE OF BIT	
3. DRILLING AGENCY, MOBILE DISTRICT			11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	MSL
4. HOLE NO. (As shown on drawing title and file number) VC-1-77			12. MANUFACTURER'S DESIGNATION OF DRILL	
5. NAME OF DRILLER			13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN	DISTURBED UNDISTURBED
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			14. TOTAL NUMBER CORE BOXES	
7. THICKNESS OF OVERBURDEN			15. ELEVATION GROUND WATER	
8. DEPTH DRILLED INTO ROCK			16. DATE HOLE	STARTED COMPLETED
9. TOTAL DEPTH OF HOLE 5.6			17. ELEVATION TOP OF HOLE -31.2	
			18. TOTAL CORE RECOVERY FOR BORING	
			19. SIGNATURE OF INSPECTOR J. TYSON	

W.C. %	DEPTH (-)	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD-PENETRATION (BLOWS PER FOOT)
				0 20 40 60
87	1.6		GRAY SANDY FAT CLAY (CH) LL = 71, PL = 21 PI = 20	
	3.0		LIGHT GRAY PR. GRD. SAND (SP) W/ TR SHELL	V. BRACORED
	5.6		GRAY PR. GRD. SAND (SP) W/ TR SHELL	
	6.0		BT GRAY PR GRD SAND (SP) W/ LITTLE SHELL	
			BOTTOM OF HOLE	
	9.0			
	12.0			
	15.0			
	18.0			
	21.0			
	24.0			
	27.0			

MOB FORM 827
APR 74 JC

HOLE NO. VC-1-77

N 194,750 E 451,052

BORING LOG-S		DIVISION	INSTALLATION	SHEET
		South Atlantic	Mobile District	OF 1 SHEETS
1. PROJECT GULFPORT SHIP CHANNEL		10. SIZE AND TYPE OF PIT		
2. LOCATION (Coordinates or Station) GULFPORT, MISSISSIPPI		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL		
3. DRILLING AGENCY MOBILE DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL		
4. HOLE NO. (As shown on drawing title and file number) VC-2-78		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED UNDISTURBED		
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERT.		15. ELEVATION GROUND WATER		
7. THICKNESS OF OVERBURDEN		16. DATE HOLE STARTED COMPLETED 8-30-77 8-30-77		
8. DEPTH DRILLED INTO ROCK		17. ELEVATION TOP OF HOLE -31.0		
9. TOTAL DEPTH OF HOLE: 18.5		18. TOTAL CORE RECOVERY FOR BORING		
		19. SIGNATURE OF INSPECTOR J. TYSON		

V.C. %	DEPTH (')	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD-PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
	0.0		DARK GRAY ORGANIC CLAY (OH)				
55	3.0		GRAY FAT CLAY (CH) W/ SOME SAND LL: 96, PL: 28, PI: 68				
	4.0		GRAY CLAYEY SAND (SC) W/ TR. SHELL				
50	5.0		GRAY PR. GRD. SILTY SA. (SP-SM) W/ TR. SHELL				
	6.0		DK GRAY SANDY FAT CLAY (CH) W/ TR. SHELL				
47	7.0		GRAY SANDY FAT CLAY (C-)				
55	8.0						
	9.0		DARK GRAY SANDY FAT CLAY (CH) W. TR. SHELL				
	10.0		GRAY CLAYEY SAND (SC) W. TR. SHELL				
	11.0		GRAY CLAYEY SAND (SC) W. TR. DECOM. WOOD & SHELL				
	12.0		GRAY PR. GRD. SILTY SAND (SP-SM) W/ TR. SHELL & ROOTS				
	13.0						
	14.0		GRAY PR. GRD. SILTY SAND (SP-SM), W/ LITTLE SHELL				
	15.0						
	16.0						
	17.0						
	18.0						
	18.5		BOTTOM OF HOLE				
	21.0						
	24.0						
	27.0						

MOB FORM 027
APR 74

HOLE NO. VC-2-77

N 193,167 E 44.1/11

BORING LOG-S		Division South Atlantic		Project Mobile District		Sheet 1 of 1 SHEETS	
1. PROJECT GULFPORT SHIP CRUISE				14. DATE AND TIME OF B.O. 11/25/50			
2. LOCATION (County, State, or Station) GULFPORT, MISSISSIPPI				15. ELEVATION FROM ELEVATION KNOWN POINT - MSL VS L			
3. DRILLING AGENCY MOBILE DISTRICT				16. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) VC-3-78				17. TOTAL NO. OF COR. BURDEN SAMPLES TAKEN 1			
5. NAME OF DRILLER				18. TOTAL NUMBER CORE BORES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG FROM VERT				19. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				20. DATE HOLE STARTED _____ COMPLETED _____			
8. DEPTH DRILLED INTO ROCK				21. ELEVATION TOP OF HOLE 21.7			
9. TOTAL DEPTH OF HOLE 15.5'				22. TOTAL CORE RECOVERY FOR BORING			
				23. SIGNATURE OF INSPECTOR J. V. COLE			

W.C. %	DEPTH (-)	SYM	CLASSIFICATION OF MATERIAL'S (DESCRIPTION)	STANDARD PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
	1.0		GRAY ORGANIC CLAY (OH)				
	2.0		GRAY FAT CLAY (CH) W/ LITTLE				
	3.0		LL=88, PL=29, PI=59				
	4.0		GRAY ORGANIC CLAY (CH)				
	5.0		GRAY ORGANIC CLAY (CH)				
	6.0		GRAY SANDY FAT CLAY (CH)				
	7.0		SLIGHTLY ORGANIC				
	8.0		GRAY SANDY FAT CLAY (C-W)				
	9.0		W/ TR. SHELL				
	10.0		GRAY CLAYEY SAND (SC)				
	11.0		LL=30, PL=15, PI=15				
	12.0		GRAY CLAYEY SAND (SC)				
	13.0		BROWN SILTY SAND, SV W/ TR. SHELL				
	14.0		GRAY PR GRD. SILTY SAND, SV W/ TR. SHELL				
	15.0						
	16.0						
	17.0						
	18.0						
	19.0						
	20.0						
	21.0						
	22.0						
	23.0						
	24.0						
	25.0						
	26.0						
	27.0						

HOB FORM 927 JC
APR 54

HOLE NO. VC-3-78

N 190,167 E 450,875

BORING LOG-S		DIVISION		INSTALLATION		SHEET	
		South Atlantic		Mobile District		OF SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL				10. SIZE AND TYPE OF PIT			
2. LOCATION (Coordinates or Station) GULFPORT, MISSISSIPPI				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) VC-4-77				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED UNDISTURBED			
5. NAME OF DRILLER				14. TOTAL NUMBER CORE LOGS			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 8/29/77 COMPLETED 8/29/77			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE - 31.5			
9. TOTAL DEPTH OF HOLE 19.5'				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR J. TYSON			

W.C. %	DEPTH (-)	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
	1.5		GRAY ORGANIC CLAY (OH)				
191	2.5		GRAY FAT CLAY (CH) W / TR. SAND LL=138, PL=35, PI=103				
177	3.0		DK GRAY ORGANIC CLAY (OH)				
87	3.5		GRAY FAT CLAY (CH) W / LITTLE SAND & SHELL				
74			GRAY SANDY FAT CLAY (C-)				
79	6.0		GRAY FAT CLAY (CH) W / LITTLE SAND				
36			GRAY FAT CLAY (CH) W / LITTLE SAND, LL=92, PL=29, PI=63				
			GRAY SANDY FAT CLAY (CH) W / TR. SHELL				
	9.0						
	10.5		GRAY CLAYEY SAND (SC) W / TR. SHELL				
	12.0		GRAY SILTY SAND (SM) SL. PLASTIC W / TR. SHELL				
	15.0						
			GRAY SILTY SAND (SM) W / TR. SHELL				
	18.0						
	19.5		GRAY PR. GRD. SILTY SAND (SP. SM.) W / TR. SHELL				
	21.0		BOTTOM OF HOLE				
	24.0						
	27.0						

MOB FORM 027
APR 74

HOLE NO. VC-4-77

N 198,000 E 452,250

BORING LOG-S		DIVISION	INSTALLATION	SHEET
PROJECT		South Atlantic	Mobile District	OF 1 SHEETS
1. PROJECT		GULFPORT SHIP CHANNEL		
2. LOCATION (Coordinates or Station)		GULFPORT, MISSISSIPPI		
3. DRILLING AGENCY		MOBILE DISTRICT		
4. HOLE NO. (As shown on drawing title and file number)		VC-5-77		
5. NAME OF DRILLER				
6. DIRECTION OF HOLE		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		
7. THICKNESS OF OVERBURDEN		10. SIZE AND TYPE OF BIT		
8. DEPTH DRILLED INTO ROCK		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		
9. TOTAL DEPTH OF HOLE		12. MANUFACTURER'S DESIGNATION OF DRILL		
18.2		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		
		14. TOTAL NUMBER CORE BOXES		
		15. ELEVATION GROUND WATER		
		16. DATE HOLE		
		17. ELEVATION TOP OF HOLE -24.0		
		18. TOTAL CORE RECOVERY FOR BORING		
		19. SIGNATURE OF INSPECTOR		
		J. TYSON		

W.C. %	DEPTH (-)	SYM	CLASSIFICATION OF MATERIAL (DESCRIPTION)	STANDARD PENETRATION (BLOWS PER FOOT)
				0 20 40 60
142	1.5		GRAY ORGANIC CLAY (OH)	
120	3.0		GRAY FAT CLAY (CH) W/ TR. SAND LI = 100, PL = 29, PI = 71	
110			GRAY FAT CLAY (CH)	
94			DK. GRAY FAT CLAY (CH) W/ TR. SAND	
96			GRAY FAT CLAY (CH) W/ TR. SAND	
62	6.0		DK. GRAY FAT CLAY (CH) W/ TR. SHELL	
86			GRAY FAT CLAY (CH) W/ LITTLE SAND	
120	8.5		GRAY FAT CLAY (CH)	
55	9.0		GRAY SANDY LEAN CLAY (CL) LI = 47, PL = 17, PI = 30	
	9.5		DK. GRAY CLAYEY SAND (SC) W/ TR. SHELL	VIBRACORED
	12.0		GRAY CLAYEY SAND (SC) W/ TR. SHELL	
	15.0		GRAY SILTY SAND (SM) SL. PL - 37.2 W/ LITTLE SHELL	
	18.0		GRAY SILTY SAND (SM) W/ TR. SHELL	
	18.2			
	21.0		BOTTOM OF HOLE	
	24.0			
	27.0			

MOB FORM 927
APR 74

HOLE NO. VC-5-77

N 184,813 E 454,500

BORING LOG-S		DIVISION South Atlantic	INSTALLATION Mobile District	SHEET 1 OF 1 SHEETS
1. PROJECT GULFPORT SHIP CHANNEL		10. SIZE AND TYPE OF PIT		
2. LOCATION (Coordinates or Station) GULFPORT, MISSISSIPPI		11. DATUM FOR ELEVATION SHOWN (TBM or MLL)		
3. DRILLING AGENCY MOBILE DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL		
4. HOLE NO. (As shown on drawing title and file number) VC-6-77		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED: UNDISTURBED:		
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER		
7. THICKNESS OF OVERBURDEN		16. DATE HOLE STARTED COMPLETED		
8. DEPTH DRILLED INTO ROCK		17. ELEVATION TOP OF HOLE -29.5		
9. TOTAL DEPTH OF HOLE 14.0'		18. TOTAL CORE RECOVERY FOR BORING		
		19. SIGNATURE OF INSPECTOR JOHNNY TYSON		

W.C. %	DEPTH (-)	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
	1.5		DARK GRAY ORGANIC CLAY (OH) W/ TR SHELL				
147	2.5		GRAY FAT CLAY (CH) W/ TR. SAND LL=107, PL=27, PI=80				
125	3.0		DK GRAY ORGANIC CLAY (OH)				
179	4.5		GRAY ORGANIC CLAY (OH)				
169	6.0		DARK GRAY FAT CLAY (C) W/ TR. SAND				
129			GRAY FAT CLAY (CH)				
102			DK GRAY FAT CLAY (CH) W/ TR. SAND				
88	9.0						
111	10.5		GRAY FAT CLAY (CH) W/ TR. SAND LL=100, PL=37, PI=63				
	12.0		GRAY CLAYEY SAND (SC) W/ TR. SHELL				
29	14.0		GRAY CLAYEY SAND (SC) LL=40, PL=15, PI=25				
	15.0		BOTTOM OF HOLE				
	16.0						
	17.0						
	18.0						
	19.0						
	20.0						
	21.0						
	22.0						
	23.0						
	24.0						
	25.0						
	26.0						
	27.0						

MOE FORM 027 J.C.
APR 74

HOLE NO. VC-6-77

N 191,729 E 456,729

BORING LOG-S		DIVISION	INSTALLATION	SHEET
		South Atlantic	Mobile District	1 of 1 SHEETS
1. PROJECT GULFPORT SHIP CHANNEL			10. SIZE AND TYPE OF PIT	
2. LOCATION (Coordinates or Station) GULFPORT, MISSISSIPPI			11. DATUM FOR ELEVATION SHOWN (TYPED OR MSL) MSL	
3. DRILLING AGENCY MOBILE DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number) VC-7-77			13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED: UNDISTURBED:	
5. NAME OF DRILLER			14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER	
7. THICKNESS OF OVERBURDEN			16. DATE HOLE STARTED: COMPLETED:	
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE -30.0	
9. TOTAL DEPTH OF HOLE 17.0'			18. TOTAL CORE RECOVERY FOR BORING	
			19. SIGNATURE OF INSPECTOR J. TYSON	

W.C. %	DEPTH (-)	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD-PENETRATION (BLOWS PER FOOT)
				0 20 40 60
146	1.0		GRAY FAT CLAY (CH) W/ TR. SAND LL=119, PL=37, PI=82	
76				
125	3.0		DK. GRAY ORGANIC CLAY (OH)	
141				
118				
121	6.0		DK. GRAY FAT CLAY (CH) GRAY FAT CLAY (CH) W/ TR. SAND LL=101, PL=30, PI=71	
39	7.0		GRAY FAT CLAY (SC) W/ TR. SAND LL=101, PL=30, PI=71	
102	9.0		DK. GRAY FAT CLAY (CH) W/ TR. SAND	VIBRACORED
10	10.5		GRAY FAT CLAY (CH) W/ TR. SAND LL=104, PL=34, PI=70	
	12.0			
	15.0		GRAY CLAYEY SAND (SC) 1/2" SHELL	
	17.0			
	18.0			
	21.0		BOTTOM OF HOLE	
	24.0			
	27.0			

MOB FORM 927
APR 74

HOLE NO. VC-7-77

N 178,453 E 459,083

BORING LOG-S		DIVISION South Atlantic	INSTALLATION Mobile District	SHEET 1 OF 1 SHEETS
PROJECT GULFPORT SHIP CHANNEL			10. SIZE AND TYPE OF PIT	
1. LOCATION (Coordinates of Station) GULFPORT, MISSISSIPPI			11. DATUM FOR ELEVATION SHOWN (FNM or MSL)	
2. DRILLING AGENCY MOBILE DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL	
3. HOLE NO. (As shown on drawing title) and file number: VC-8-78			13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN: DISTURBED: UNDISTURBED:	
4. NAME OF DRILLER			14. TOTAL NUMBER CORE BOXES	
5. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER	
6. THICKNESS OF OVERBURDEN			16. DATE HOLE STARTED: COMPLETED:	
7. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE - 30.6	
8. TOTAL DEPTH OF HOLE 18.8'			18. TOTAL CORE RECOVERY FOR BORING %	
			19. SIGNATURE OF INSPECTOR J. TYSON	

W.C. %	DEPTH (-)	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
	1.0		GRAY FAT CLAY (CH) W/ TR. SAND LL=108, PL=32, FI=73				
	2.0		DK. GRAY ORGANIC CLAY (OH)				
	3.0		GRAY ORGANIC CLAY (OH)				
	4.0		DARK GRAY FAT CLAY (CH)				
	5.0		GRAY ORGANIC CLAY (C-)				
	6.0		DARK GRAY FAT CLAY (C-)				
	7.0		GRAY FAT CLAY (CH) W/ TR. SAND LL=86, PL=27, FI=59				
	8.0						
	9.0						
	10.0		GRAY FAT CL. (C-)				
	11.0						
	12.0		GRAY FAT CLAY (CH) W/ TR. SAND LL=98, PL=32, FI=60				
	13.0						
	14.0		GRAY CLAYE. SAND (SC) W/ TR. SHELL				
	15.0						
	16.0						
	17.0						
	18.0						
	19.0						
	20.0						
	21.0		BOTTOM OF HOLE				
	22.0						
	23.0						
	24.0						
	25.0						
	26.0						
	27.0						

MOB FORM 927
APR 74 J.C

HOLE NO. VC-8-78

N 175,292 E 461,37E

BORING LOG-S		DIVISION	INSTALLATION	SHEET
		South Atlantic	Mobile District	OF 1 SHEETS
1. PROJECT		10. SIZE AND TYPE OF PIT		
GULFPORT SHIP CHANNEL		11. DATUM FOR ELEVATION BROWN (TBM or MLL)		
2. LOCATION (Coordinates or Station)		12. MANUFACTURER'S DESIGNATION OF DRILL		
GULFPORT, MISSISSIPPI		13. TOTAL NO. OF OVER- DISTURBED UNDISTURBED BURDEN SAMPLES TAKEN		
3. DRILLING AGENCY		14. TOTAL NUMBER CORE BOXES		
MOBILE DISTRICT		15. ELEVATION GROUND WATER		
4. HOLE NO. (As shown on drawing title and file number)		16. DATE HOLE STARTED COMPLETED		
VC-9-77		17. ELEVATION TOP OF HOLE -30.7		
5. NAME OF DRILLER		18. TOTAL CORE RECOVERY FOR BORING %		
6. DIRECTION OF HOLE		19. SIGNATURE OF INSPECTOR		
X VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		J. TYSON		
7. THICKNESS OF OVERBURDEN				
8. DEPTH DRILLED INTO ROCK				
9. TOTAL DEPTH OF HOLE		15.8'		

W C %	DEPTH (-)	SYN	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
	1.8		DK. GRAY ORGANIC CLAY (OH)				
166	3.0		GRAY FAT CLAY (CH) W/ TR. SAND LL=110, PL=30, PI=80				
175			GRAY FAT CLAY (CH)				
126			GRAY FAT CLAY (CH) W/ TR. SAND				
30	6.0		DK. GRAY FAT CLAY (CH)				
111			GRAY FAT CLAY (CH) W/ TR. SAND				
52	9.0		DK. GRAY FAT CLAY (CH)				
36			GRAY FAT CLAY (CH) W/ TR. SAND LL=103, PL=26, PI=77				
117	12.0		GRAY FAT CLAY (CH) W/ TR. SAND				
78			GRAY FAT CLAY (CH)				
121	15.0		GRAY FAT CLAY (CH) LL=121, PL=36, PI=85				
86	15.8		GRAY FAT CLAY (CH)				
	18.0		BOTTOM OF HOLE				
	21.0						
	24.0						
	27.0						

MOB FORM 927
APR 74

HOLE NO. VC-9-77

N 172,333 E 463,083

BORING LOG-S		Division	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT GULFPORT SHIP CHANNEL		South Atlantic	Mobile District	
2. LOCATION (County or State) GULFPORT, MISSISSIPPI			10. SIZE AND TYPE OF PIT 11. DATUM FOR ELEVATION SHOWN (FIM or MSL) MSL	
3. DRILLING AGENCY MOBILE DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title) VC - 10 - 77			13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN	
5. NAME OF DRILLER			14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER	
7. THICKNESS OF OVERBURDEN			16. DATE HOLE STARTED _____ COMPLETED _____	
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE - 31.0	
9. TOTAL DEPTH OF HOLE 9.5'			18. TOTAL CORE RECOVERY FOR BORING	
			19. SIGNATURE OF INSPECTOR J. TYSON	

V.C. %	DEPTH (-)	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD-PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
164			DK. GRAY FAT CLAY (CH)				
157			GRAY FAT CLAY (CH) W/ TR. SAND LL=112, PL=32, PI=80				
154	3.0		DK GRAY FAT CLAY (CH)				
153	3.5						
150	4.5		GR-BE INORG. SILT (MH) W/ TR. SAND				
110	6.0			VIBRACORED			
122			DK. GRAY FAT CLAY (CH)				
112	8.0		GRAY FAT CLAY (CH) W/ TR. SAND LL=111, PL=30, PI=80				
	9.5						
	12.0		BOTTOM OF HOLE				
	15.0						
	18.0						
	21.0						
	24.0						
	27.0						

MOB FORM 927
(APR 74) J.C.

HOLE NO. VC - 10 - 77

N 170,771 E 464,667

BORING LOG-S		DIVISION	INSTALLATION	SHEET
		South Atlantic	Mobile District	1 OF 1 SHEETS
1. PROJECT GULFPORT SHIP CHANNEL			10. SIZE AND TYPE OF PIT	
2. LOCATION (City and State or Station) GULFPORT, MISSISSIPPI			11. DAYUM FOR ELEVATION SHOWN (FPM - MSL) MSL	
3. DRILLING AGENCY MOBILE DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number) VC-11-77			13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED UNDISTURBED	
5. NAME OF DRILLER			14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERT.			15. ELEVATION GROUND WATER	
7. THICKNESS OF OVERBURDEN			16. DATE HOLE STARTED COMPLETED	
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE -31.0	
9. TOTAL DEPTH OF HOLE 20.0			18. TOTAL CORE RECOVERY FOR BORING %	
			19. SIGNATURE OF INSPECTOR J TYSON	

W.C. %	DEPTH (-)	SYM	CLASSIFICATION OF MATERIAL'S (DESCRIPTION)	STANDARD PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
157	3.0	[Hatched Pattern]	DK GRAY FAT CLAY (CH)				
171			GRAY FAT CLAY (CH) W/ TR. SAND				
172			LL=120, PL=37, PI=23				
	6.0	[Hatched Pattern]	DARK GRAY FAT CLAY (CH)				
162			GRAY FAT CLAY (CH) W/ TR. SAND				
154			DK GRAY FAT CLAY (CH)				
109	9.0	[Hatched Pattern]	GRAY FAT CLAY (CH)				
100			GRAY FAT CLAY (CH) W/ TR. SAND				
113			GRAY FAT CLAY (CH) W/ TR. CFG. MATERIAL				
126	12.0	[Hatched Pattern]	GRAY FAT CLAY (CH)				
118			GRAY FAT CLAY (CH) W/ TR. SAND				
120			LL=100, PL=30, PI=70				
107	15.0	[Hatched Pattern]	GRAY FAT CLAY (CH)				
113			GRAY FAT CLAY (CH) W/ TR. SAND				
126			LL=110, PL=31, PI=79				
105	18.0	[Hatched Pattern]	GRAY FAT CLAY (CH) W/ TR. SAND				
	20.0						
	21.0		BOTTOM OF HOLE				
	24.0						
	27.0						

MOB FORM 927 - C
APR 74

C-93

HOLE NO. VC-11-77

N 170,000 E 465,209

BORING LOG-S		DIVISION	South Atlantic	INSTALLATION	Mobile District	SHEET	OF	SHEETS
1. PROJECT GULFPORT SHIP CHANNEL				10. SIZE AND TYPE OF BIT				
2. LOCATION (Coordinates or Station) GULFPORT, MISSISSIPPI				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL				
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL				
4. HOLE NO. (As shown on drawing title: and file number) VC-12-77				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN: DISTURBED UNDISTURBED				
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES				
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER				
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED COMPLETED				
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE - 31.7				
9. TOTAL DEPTH OF HOLE 20.0'				18. TOTAL CORE RECOVERY FOR BORING				
				19. SIGNATURE OF INSPECTOR J. TYSON				

V.C. %	DEPTH (-)	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
			GRAY FAT CLAY (CH)				
96	3.0		GRAY FAT CLAY (CH) W/ TR. SAND LL=77, PL=25, PI=52				
159			GRAY FAT CLAY (CH)				
148			GRAY FAT CLAY (CH) W/ TR. SAND LL=103, PL=28, PI=75				
106	6.0		GRAY FAT CLAY (CH) W/ TR. SFG. MAT.				
106			GRAY FAT CLAY (CH) W/ TR. SAND LL=110, PL=30, PI=80				
104	9.0		GRAY FAT CLAY (CH)				
104							
125	12.0		GRAY FAT CLAY (CH) W/ TR. SAND				
121			GRAY FAT CLAY (CH) W/ TR. SFG. MAT.				
121			DK. GRAY FAT CLAY (CH) W/ TR. SHELL				
113	15.0		GRAY FAT CLAY (CH) W/ TR. SAND LL=99, PL=35, PI=64				
105	18.0		DK. GRAY FAT CLAY (CH)				
126	20.0		GRAY FAT CLAY (CH) W/ TR. SAND				
	21.0						
			BOTTOM OF HOLE				
	24.0						
	27.0						

HOB FORM 927
APR 64

C-94

HOLE NO. VC-12-77

BORING LOG-S		DIVISION	INSTALLATION	SHEET
		South Atlantic	Mobile District	OF 1 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT		
GULFPORT HARBOR		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		
2. LOCATION (Coordinates or Station)		MSL		
GULFPORT, MS.		12. MANUFACTURER'S DESIGNATION OF DRILL		
3. DRILLING AGENCY		MOBILE DISTRICT		
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		
VC-C-26-76		14. TOTAL NUMBER CORE BOXES		
5. NAME OF DRILLER		15. ELEVATION GROUND WATER		
C. FULLER		16. DATE HOLE		
6. DIRECTION OF HOLE		17. ELEVATION TOP OF HOLE		
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		3-17-76		
7. THICKNESS OF OVERBURDEN		18. TOTAL CORE RECOVERY FOR BORING		
8. DEPTH DRILLED INTO ROCK		19. SIGNATURE OF INSPECTOR		
9. TOTAL DEPTH OF HOLE		GARDNER		
20.0'				

W.C. %	DEPTH	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD-PENETRATION (BLOWS PER FOOT)
				0 20 40 60
	2.5	*		
71	3.0		GRAY SANDY FAT CLAY (CH) W/ TRACE SHELL FRAG.	
127	6.0		GRAY FAT CLAY (CH) W/ LITTLE SAND	
	7.0			
	9.0	*		
	10.0			VIBRACORED
	12.0		GRAY SILTY SAND (SM) SL. PLASTIC W/ TR. GRAVEL SIZE. CSE.-MED. SAND SIZE SHELL	
	14.0		GRAY POORLY GRADED SILTY SAND (SP-SM)	
	15.0			
	18.0	*		
	20.0			
	21.0		BOTTOM OF HOLE	
	24.0		* SECTIONS REMOVED BY "GULF SOUTH RESEARCH INSTITUTE" FOR TESTING.	
	27.0			

NOB form 827

HOLE NO. VC-C-26-76

BORING LOG-S		Division South Atlantic		Installation Mobile District		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT HARBOR				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station) GULFPORT, MS.				11. DAYUM FOR ELEVATION SHOWN (FSM or MSL) MSL			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL 1			
4. HOLE NO. (As shown on drawing title and file number) VC-C43-76				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED 1 UNDISTURBED 0			
5. NAME OF DRILLER C. FULLER				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE: STARTED 3-17-76 COMPLETED 3-17-76			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 31.2			
9. TOTAL DEPTH OF HOLE 20.0'				18. TOTAL CORE RECOVERY FOR BORING 3			
				19. SIGNATURE OF INSPECTOR GARDNER			

W.C. %	DEPTH	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD-PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
	2.5		*				
35	3.0						
	6.0		GRAY CLAYEY SAND (SC) W/ SLIGHT TRACE WOOD FRAG.				
32	8.5						
	9.0						
	11.5		*				
	12.0						
45	15.0		GRAY SANDY FAT CLAY (CH) W/ TR. WOOD PARTICLES				
	17.0						
41	17.0		GRAY FAT CLAY (CH) W/LITTLE SAND				
	18.0						
	20.0		*				
	21.0		BOTTOM OF HOLE				
	24.0		* SECTIONS REMOVED BY "GULF SOUTH RESEARCH INSTITUTE" FOR TESTING.				
	27.0						

MOB Form 927

HOLE NO. VC-C43-76

BORING LOG-S		DIVISION	INSTALLATION	SHEET
		South Atlantic	Mobile District	OF 1 SHEETS
1. PROJECT GULFPORT HARBOR			10. SIZE AND TYPE OF PIT	
2. LOCATION (Coordinates or Station) GULFPORT, MS.			11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL	
3. DRILLING AGENCY MOBILE DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL	
4. HOLE NO. (As shown on drawing title and file number) VC-C55-7C			13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED UNDISTURBED	
5. NAME OF DRILLER C. FULLER			14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERT.			15. ELEVATION GROUND WATER	
7. THICKNESS OF OVERBURDEN			16. DATE HOLE STARTED COMPLETED 3-17-76 3-17-76	
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE 35.2	
9. TOTAL DEPTH OF HOLE 20.0'			18. TOTAL CORE RECOVERY FOR BORING	
			19. SIGNATURE OF INSPECTOR GARDNER	

W.C. %	DEPTH	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD-PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
	2.4		*				
	3.0						
209			GRAY FAT CLAY (CH) VERY SOFT				
	6.0						
42			GRAY SANDY LEAN CLAY (CL) W/ WOOD PARTICLES				
	9.0						
	9.5						
	12.0		GRAY SILTY SAND (SM)				
	14.0						
	15.0						
	18.0		*				
	20.5						
	21.0		BOTTOM OF HOLE				
	24.0		* SECTIONS REMOVED BY "GULF SOUTH RESEARCH INSTITUTE" FOR TESTING.				
	27.0						

MOB FORM 927

HOLE NO. VC-C55-7C

BORING LOG-S		DIVISION		INSTALLATION		SHEET	
		South Atlantic		Mobile District		OF SHEETS	
1. PROJECT		GULFPORT HARBOR		10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)		GULFPORT, MS.		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		MSL	
3. DRILLING AGENCY		MOBILE DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)		VC-C65-76		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER		C. FULLER		14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. DATE HOLE		STARTED 3-17-76 COMPLETED 3-17-76	
7. THICKNESS OF OVERBURDEN				16. ELEVATION TOP OF HOLE		54.2	
8. DEPTH DRILLED INTO ROCK				17. TOTAL CORE RECOVERY FOR BORING		%	
9. TOTAL DEPTH OF HOLE		20.0'		18. SIGNATURE OF INSPECTOR		GARDNER	

W/C %	DEPTH	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
	3.0		*				
	3.5						
211	5.9		GRAY CLAYEY INORGANIC SILT (MH)				
	6.0						
	9.0		*				
	10.5						
97	11.5		GRAY CLAYEY INORG. SILT (MH) INTER. CAL. S.				
	12.0						
47	14.2		GRAY SANDY LEAN CLAY (CL) W/ NUM. SHELL FRAG.				
	15.0						
	18.0		*				
	20.0						
	21.0		BOTTOM OF HOLE				
	24.0		* SECTIONS REMOVED BY GULF SOUTH RESEARCH INSTITUTE FOR TESTING.				
	27.0						

MOB FORM 827

HOLE NO. VC-C65-76

BORING LOG-S		DIVISION South Atlantic	INSTALLATION Mobile District	SHEET OF SHEETS
1. PROJECT GULFPORT HARBOR		10. SIZE AND TYPE OF BIT		
2. LOCATION (Coordinates or Station) GULFPORT, MS.		11. DATUM FOR ELEVATION SHOWN (TBM - MSL) 14.51		
3. DRILLING AGENCY MOBILE DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL		
4. HOLE NO. (As shown on drawing title and file number) VC-C77-76		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED UNDISTURBED		
5. NAME OF DRILLER C. FULLER		14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERT.		15. ELEVATION GROUND WATER		
7. THICKNESS OF OVERBURDEN		16. DATE HOLE STARTED: 3-17-76 COMPLETED: 3-17-76		
8. DEPTH DRILLED INTO ROCK		17. ELEVATION TOP OF HOLE 23.2		
9. TOTAL DEPTH OF HOLE 20.0'		18. TOTAL CORE RECOVERY FOR BORING		
		19. SIGNATURE OF INSPECTOR GARDNER		

W.C. %	DEPTH	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD PENETRATION (BLOWS PER FOOT)
				0 20 40 60
	3.0	*		
	6.0			
	6.6			
216	9.0	DIAGONAL HATCH	DK. GRAY FAT CLAY (CH) W/ TR. SAND	VIERACORED
29	9.5	DIAGONAL HATCH	TAN-GRAY LEAN CLAY (CL) W/ TR WOOD PARTICLES	
	11.5			
	12.0			
	15.0			
	18.0	*		
	20.5			
	21.0		BOTTOM OF HOLE	
	24.0		* SECTIONS REMOVED BY 'GULF SOUTH RESEARCH INSTITUTE' FOR TESTING.	
	27.0			

MOB FORM 827

HOLE NO. VC-C77-76

BORING LOG-S		DIVISION South Atlantic	INSTALLATION Mobile District	SHEET 1 OF 1 SHEETS
1. PROJECT GULFPORT HARBOR		10. SIZE AND TYPE OF BIT		
2. LOCATION (Coordinates or Station) GULFPORT, MISS.		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL		
3. DRILLING AGENCY MOBILE DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL		
4. HOLE NO. (As shown on drawing title and file number) VC-SI-1-76		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED: UNDISTURBED:		
5. NAME OF DRILLER C. FULLER		14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERT.		15. ELEVATION GROUND WATER		
7. THICKNESS OF OVERBURDEN		16. DATE HOLE STARTED: 3-18-76 COMPLETED: 3-18-76		
8. DEPTH DRILLED INTO ROCK		17. ELEVATION TOP OF HOLE 7.0		
9. TOTAL DEPTH OF HOLE 16.6'		18. TOTAL CORE RECOVERY FOR BORING 3		
		19. SIGNATURE OF INSPECTOR GARDNER		

W/C %	DEPTH	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD-PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
189	3.0		GRAY FAT CLAY (CH) W/TR. SAND				
165			GRAY FAT CLAY (CH)				
126	6.0		GRAY FAT CLAY (CH) W/TR. SAND				
	7.5			VIBROCORED			
	9.0		GRAY SILTY SAND (SM) SL. PLASTIC				
37	12.0						
			GRAY CLAYEY SAND (SC)				
28	15.0						
	16.6						
	18.0		BOTTOM OF HOLE				
	21.0						
	24.0						
	27.0						

MOB FORM 927
APR 74

HOLE NO. VC-SI-1-76

BORING LOG-S		DIVISION South Atlantic	INSTALLATION Mobile District	SHEET 1 OF 1 SHEETS
PROJECT GULFPORT HARBOR		10. SIZE AND TYPE OF PIT		
LOCATION (Coordinates or Station) GULFPORT, MS.		11. DATUM FOR ELEVATION SHOWN (FTH or MSL) MSL		
DILLING AGENCY MOBILE DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL		
HOLE NO. (As shown on drawing title and file number) VC-SI-2-76		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED: UNDISTURBED:		
NAME OF DRILLER C. FULLER		14. TOTAL NUMBER CORE BOXES		
DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER		
THICKNESS OF OVERBURDEN		16. DATE HOLE STARTED: 3-18-76 COMPLETED: 3-18-76		
DEPTH DRILLED INTO ROCK		17. ELEVATION TOP OF HOLE 9.0		
TOTAL DEPTH OF HOLE 16.5'		18. TOTAL CORE RECOVERY FOR BORING		
		19. SIGNATURE OF INSPECTOR GARDNER		

W/C %	DEPTH	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
	18.4		GRAY FAT CLAY (CH, 1/4 TR. SAND)				
	3.0						
	13.5						
	6.0						
	16.0		OK. GRAY CLAYEY SAND (SC)	VIBRACORED			
	9.0						
	5.2						
	12.0		GRAY CLAYEY SAND (SC)				
	14.0						
	15.0		LT. GRAY POORLY GRADED SILTY SAND (SP-SM)				
	16.5						
	18.0		BOTTOM OF HOLE				
	21.0						
	24.0						
	27.0						

MOB FORM 927
APR 74

HOLE NO. VC-SI-2-76

BORING LOG-S		DIVISION	South Atlantic	INSTALLATION	Mobile District	SHEET	1	OF 1 SHEETS
1. PROJECT				10. SIZE AND TYPE OF BIT				
GULFPORT HARBOR				11. DAY ON WHICH ELEVATION SHOWN (Y/M or M/L)				
2. LOCATION (Coordinates or Station)				12. MANUFACTURER'S DESIGNATION OF DRILL				
GULFPORT, MS.				13. TOTAL NO. OF OVER-UNDISTURBED				
3. DRILLING AGENCY				BURDEN SAMPLES TAKEN				
MOBILE DISTRICT				14. TOTAL NUMBER CORE BOXES				
4. HOLE NO. (As shown on drawing title and file number)				15. ELEVATION GROUND WATER				
VC-SII-1-76				MSL				
5. NAME OF DRILLER				16. DATE HOLE				
C. FULLER				STARTED 3-18-76 COMPLETED 3-18-76				
6. DIRECTION OF HOLE				17. ELEVATION TOP OF HOLE				
VERTICAL INCLINED DEG. FROM VERT.				11.0				
7. THICKNESS OF OVERBURDEN				18. TOTAL CORE RECOVERY FOR BORING				
8. DEPTH DRILLED INTO ROCK				19. SIGNATURE OF INSPECTOR				
9. TOTAL DEPTH OF HOLE				GARDNER				
18.1'								

W/C %	DEPTH	SYN	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD-PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
	192		GRAY FAT CLAY (CH) W/TR. SAND				
	3.0						
	143						
	6.0		DK. GRAY CLAYEY SAND (SC)				
	132						
	8.0		DK. GRAY SILTY SAND (SM) SLIGHTLY PLASTIC				
	40						
	9.0		BROWN-TAN POORLY GRADED SILTY SAND (SP-SM) W/WOOD PARTICLES				
	10.5						
	24		TAN PR. GRD. SILTY SAND (SP-SM)				
	13.5						
	15.0		BOTTOM OF HOLE				
	18.0						
	18.1						
	21.0						
	24.0						
	27.0						

MOB FORM 927
APR 74

HOLE NO. VC-SII-1-76

BORING LOG-S		DIVISION	INSTALLATION	SHEET
		South Atlantic	Mobile District	OF 1 SHEETS
1. PROJECT		10. SIZE AND TYPE OF PIT		
GULFPORT HARBOR				
2. LOCATION (Coordinates or Station)		11. DAY OF YEAR FOR ELEVATION SHOWN (YEN or MSL)		
GULFPORT, MS.		MSL		
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL		
MOBILE DISTRICT				
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		
VC-SII-2-76		DISTURBED UNDISTURBED		
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES		
C. FULLER		15. ELEVATION GROUND WATER		
6. DIRECTION OF HOLE		16. DATE HOLE		
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		STARTED 3-18-76 COMPLETED 3-18-76		
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE		
		13.0		
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING		
		1		
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR		
18.5'		GARDNER		

W/C %	DEPTH	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD-PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
127	3.0		GRAY FAT CLAY (CH) W/TR. SAND				
121	6.0		DK. GRAY FAT CLAY (CH) W/LITTLE SAND				
63	8.0		GRAY CLAYEY SAND (SC-H)				
60	9.0		GRAY CLAYEY SAND (SC)				
	11.0		GRAY SILTY SAND (SM) W TR. WOOD PARTICLES				
	12.0		BROWN SILTY SAND (SM) W/ WOOD PARTICLES				
	15.0		BROWNISH GRAY POORLY GRADED SAND (SP)				
	16.5						
	18.0						
	18.5						
			BOTTOM OF HOLE				
	21.0						
	24.0						
	27.0						

MOB FORM 827
APR 74

HOLE NO. VC-SII-2-76

BORING LOG-S		DIVISION	INSTALLATION	SHEET
		South Atlantic	Mobile District	OF 1 SHEETS
1. PROJECT		10. SIZE AND TYPE OF BIT		
2. LOCATION (Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		
GULFPORT HARBOR		MSL		
3. DRILLING AGENCY		12. MANUFACTURER'S DESIGNATION OF DRILL		
MOBILE DISTRICT				
4. HOLE NO. (As shown on drawing title and file number)		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		
VC-SIII-1-76		DISTURBED UNDISTURBED		
5. NAME OF DRILLER		14. TOTAL NUMBER CORE BOXES		
C. FULLER		15. ELEVATION GROUND WATER		
6. DIRECTION OF HOLE		16. DATE HOLE		
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERT.		STARTED COMPLETED		
		3-18-76 3-18-76		
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE		
		7.0		
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING		
		%		
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR		
16.3'		GARDNER		

W/C %	DEPTH	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD-PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
			LT. GRAY POORLY GRADED SAND (SP) W/TR. GRAVEL				
42	3.0		GRAY CLAYEY SAND (SC)				
	4.5						
105	6.0		DK. GRAY FAT CLAY (CH) W/TR. SAND				
	9.0						
	10.0		GRAY FR. GRD. SILTY SAND (SP. SM) W/TR. SHELL FRAG.				
	12.0		LT. GRAY POORLY GRADED SAND (SP)				
	15.0		GRAY POORLY GRADED SAND (SP) W/TR. SHELL FRAG.				
	16.3						
	18.0		BOTTOM OF HOLE				
	21.0						
	24.0						
	27.0						

MOB FORM 827
APR 74


HOLE NO. VC-SIII-1-76

BORING LOG-S		Division	INSTALLATION	SHEET
		South Atlantic	Mobile District	OF 1 SHEETS
1. PROJECT		10. SIZE AND TYPE OF PIT		
GULFPORT HARBOR		11. DAYUM FOR ELEVATION SHOWN (TBM or MSL)		
2. LOCATION (Coordinates or Section)		MSL		
GULFPORT, MS.		12. MANUFACTURER'S DESIGNATION OF DRILL		
3. DRILLING AGENCY		13. TOTAL NO. OF OVER- DISTURBED UNDISTURBED		
MOBILE DISTRICT		BURDEN SAMPLES TAKEN		
4. HOLE NO. (As shown on drawing title and file number)		14. TOTAL NUMBER CORE BOXES		
VC-SIII-2-76		15. ELEVATION GROUND WATER		
5. NAME OF DRILLER		16. DATE HOLE		
C. FULLER		STARTED COMPLETED		
6. DIRECTION OF HOLE		3-13-76 3-18-76		
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERT.		17. ELEVATION TOP OF HOLE		
7. THICKNESS OF OVERBURDEN		11.0		
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING		
9. TOTAL DEPTH OF HOLE		19. SIGNATURE OF INSPECTOR		
13.0		GARDNER		

W/C %	DEPTH	SYM	CLASSIFICATION OF MATERIALS (DESCRIPTION)	STANDARD PENETRATION (BLOWS PER FOOT)			
				0	20	40	60
	2.0		GRAY SILTY SAND (SM) SL. PLASTIC W/TR. SHELL FRAG.				
7	3.0		GRAY FAT CLAY (CH) W/SOME SAND				
	4.0						
	6.0		GRAY POORLY GRADED SILTY SAND (SP. SM.) W/TR. GRAVEL SIZE, CSE. MED. SAND SIZE SHELL FRAG.				
	7.5						
	9.0		GRAY POORLY GRADED SAND (SP. W/SOME GRAVEL SIZE, CSE. MED. SAND SIZE SHELL FRAG.				
	12.0		LT GRAY POORLY GRADED SAND (SP) W/TR. SHELL FRAG.				
	15.0		GRAY POORLY GRADED SAND (SP)				
	18.0		LT GRAY POORLY GRADED SAND (SP) W/TR. SHELL FRAG.				
	21.0		BOTTOM OF HOLE				
	24.0						
	27.0						

MOB FORM 927
APR 74

HOLE NO. VC-SIII-2-76

DRILLING LOG		DIVISION SOUTH ATLANTIC		METALLATION MOBILE DISTRICT		Hole No. GSC-1-62 SHEET 1 OF 1 SHEETS		
1. PROJECT GULFPORT SHIP CHANNEL				10. SIZE AND TYPE OF BIT SPT				
2. LOCATION (Coordinates or Station) MS E: N247000 E422480				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW				
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE				
4. HOLE NO. (As shown on drawing title and file number) GSC-1-62				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. DISTURBED 5 UNDISTURBED		
5. NAME OF DRILLER LAMBERT				14. TOTAL NUMBER CORE BOXES				
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				15. ELEVATION GROUNDWATER SEE 'REMARKS'				
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		16. STARTED 7 FEB 62 COMPLETED 8 FEB 62		
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -27.5				
9. TOTAL DEPTH OF HOLE 10.5' (EL. -38.0)				18. SIGNATURE OF INSPECTOR SAWYER 18. AFTER CHECKED RC				
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g SPT BLOWS/FT		
-27.5	0.0		(CH) DK BLUE GRAY FAT CLAY, V/ SOFT, SEMI-FLUID, DK ORG COLOR, NO VISIBLE ORG MATTER		1	0		
	1.5		(CH) DK BLUE GRAY FAT CLAY, V/ SOFT, SEMI-FLUID, DK ORG COLOR, NO VISIBLE ORG MATTER		2	0		
	3.0		(CH) DK BLUE GRAY FAT CLAY, V/ SOFT, SEMI-FLUID, DK ORG COLOR, NO VISIBLE ORG MATTER		3	0		
	4.5		NO RECOVERY FROM SAMPLER ASSUMED SAME AS ABOVE		-	0		
	6.0		(CH) DK BLUE GRAY FAT CLAY, AS ABOVE, W/ SLIGHT INCREASE IN DENSITY & CONSISTENCY DUE TO SLIGHT DECREASE IN MOISTURE CONTENT		4	0		
	7.5		NO RECOVERY FROM SAMPLER ASSUMED SAME AS ABOVE		-	0		
	9.0		(CH) DK BLUE GRAY FAT CLAY, TYPICAL OF ABOVE SAMPLES		5	0		
-38.0	10.5						B.O.H.	

Hole No. GSC-2-62	
DRILLING LOG	DIVISION SOUTH ATLANTIC
MOBILE DISTRICT	
SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL	
2. LOCATION (Coordinates or Station) ZONE E: N 239890 E 427690	
3. DRILLING AGENCY MOBILE DISTRICT	
4. HOLE NO. (As shown on drawing title and the number) GSC-2-62	
5. NAME OF DRILLER LAMBERT	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL	
7. THICKNESS OF OVERBURDEN	
8. DEPTH DRILLED INTO ROCK	
9. TOTAL DEPTH OF HOLE 6.0' (EL. -36.0)	
10. SIZE AND TYPE OF BIT SPT	
11. DATUM FOR ELEVATION SHOWN (TBM, MSL, or NGVD) MLW	
12. MANUFACTURER'S DESIGNATION OF DRILL BARGE	
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 3	
14. TOTAL NUMBER CORE BOXES	
15. ELEVATION GROUNDWATER SEE 'REMARKS'	
16. DATE HOLE 8 FEB 62 STARTED 8 FEB 62 COMPLETED	
17. ELEVATION TOP OF HOLE -30.0	
18. TOTAL CORE RECOVERY FOR BORING	
19. SIGNATURE OF INSPECTOR SAWYER DRAFTED: RC CHECKED:	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-30.0	0.0		(CH) DK BLUE GRAY FAT CLAY, SEMI-FLUID, V/ SOFT, ORG COLOR, NO VISIBLE ORG MATTER		1	HOLE DRILLED UNDER WATER 0
	1.5		(CH) DK BLUE GRAY FAT CLAY, SEMI-FLUID, V/ SOFT, ORG COLOR, NO VISIBLE ORG MATTER		2	UNSUCCESSFUL 3" SHELBY TUBE SAMPLING ATTEMPT MADE - NO RECOVERY. MATERIAL TOO SOFT & FLUID. 0
	3.0		NO RECOVERY - ASSUMED SAME MAT'L AS ABOVE AND BELOW		-	0
	4.5		(CH) DK BLUE GRAY FAT CLAY, SLIGHT INCREASE IN DENSITY & CONSISTENCY DUE TO SLIGHT DECREASE IN MOISTURE CONTENT		3	0
-36.0	6.0					R.O.H.

DRILLING LOG		DIVISION	INSTALLATION	Hole No. GSC-3-62		
		SOUTH ATLANTIC	MOBILE DISTRICT	SHEET 1 OF 1 SHEETS		
1. PROJECT GULFPORT SHIP CHANNEL			10. SIZE AND TYPE OF BIT SPT			
2. LOCATION (Coordinates or Station) ZONE MS E1 N 231610 E 433150			11. DATUM FOR ELEVATION SHOWN (TBM, MSL, or MEVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (As shown on drawing title and file number) GSC-3-62			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 2		UNSTURBED	
5. NAME OF DRILLER LAMBERT			14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL			15. ELEVATION GROUNDWATER • SEE 'REMARKS'			
7. THICKNESS OF OVERBURDEN			16. DATE HOLE STARTED 8 FEB 62		COMPLETED 8 FEB 62	
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE -29.5			
9. TOTAL DEPTH OF HOLE 6.0' (EL. -35.5)			18. SIGNATURE OF INSPECTOR SAWYER		DRAFTED RC CHECKED	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR R.C. e	SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant g SPT BLows/ft
-29.5	0.0		NO RECOVERY - ASSUMED SAME AS TYPICAL MATL' BELOW		-	HOLE DRILLED UNDER WATER 0
-34.0	1.5		(CH) DK BLUE GRAY FAT, ORG. COLOR STRONG, NO VISIBLE ORG MATTER, TYPICAL - V/ SOFT, SEMI-FLUID.		1	0
	3.0				-	0
	4.5		NO RECOVERY - ASSUMED SAME MATL' AS ABOVE AND BELOW.		-	0
-35.5	6.0		(CH) SAME AS ABOVE		2	0
						B.O.H.
						3' SHELBY TUBE UNDISTURBED SAMPLE ATTEMPTED - 6.5' PUSH, 0.7' SAMPLE RETAINED, 10.8% RECOVERY

ENG FORM 1036
(KADO Facsimile)

JAN 15 1968

PROJECT

GULFPORT SHIP CHANNEL

HOLE NO.

GSC-3-62

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION MOBILE DISTRICT		Hole No. GSC-4-62		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL				10. SIZE AND TYPE OF BIT SPT		6. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
2. LOCATION (Coordinates or Station) ZONE MS E: N 226500 E 437480				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE					
3. DRILLING AGENCY MOBILE DISTRICT				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 2		UNDISTURBED	
4. HOLE NO. (As shown on drawing title and file number) GSC-4-62				14. TOTAL NUMBER CORE BOXES					
5. NAME OF DRILLER LAMBERT				15. ELEVATION GROUNDWATER • SEE 'REMARKS'					
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				16. DATE HOLE		STARTED 8 FEB 62		COMPLETED 8 FEB 62	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE		-30.2			
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING					
9. TOTAL DEPTH OF HOLE 6.0' (EL. -36.2)				19. SIGNATURE OF INSPECTOR SAWYER				DRAFTED RC CHECKED	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if signif./cont) SPT BLows/FT			
-30.2	0.0		NO RECOVERY - TOP MATL' TOO FLUID. ASSUMED SAME AS TYPICAL MATL' BELOW.		-	HOLE DRILLED UNDER WATER 0			
	1.5		(CH) DK GRAY BLUE FAT CLAY, STRONG ORG COLORING, NO VISIBLE ORG MATTER, V/ SOFT.		1	0			
	3.0		NO RECOVERY, SAME AS ABOVE.		-	0			
	4.5		(CH) DK GRAY BLUE FAT CLAY, AS ABOVE. INCREASE IN CONSISTENCY, DECREASE IN W.C.		2	0			
-36.2	6.0					B.O.H.			

DRILLING LOG		DIVISION SOUTH ATLANTIC		Hole No. GSC-5-62		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL		10. SIZE AND TYPE OF BIT SPT		11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
2. LOCATION (Coordinates or Station) ZONE MS E: N 224170 E 439180		12. MANUFACTURER'S DESIGNATION OF DRILL BARGE		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES	
3. DRILLING AGENCY MOBILE DISTRICT				15. ELEVATION GROUNDWATER • SEE 'REMARKS'			
4. HOLE NO. (as shown on drawing title and file number) GSC-5-62				16. DATE HOLE STARTED 8 FEB 62 COMPLETED 8 FEB 62			
5. NAME OF DRILLER LAMBERT				17. ELEVATION TOP OF HOLE -31.1			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				18. TOTAL CORE RECOVERY FOR BORING /			
7. THICKNESS OF OVERBURDEN				19. SIGNATURE OF INSPECTOR SAWYER		20. DRAFTED / CHECKED RC	
8. DEPTH DRILLED INTO ROCK				21. ELEVATION TOP OF HOLE			
9. TOTAL DEPTH OF HOLE 4.5' (EL. -35.6)							
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR N.C. e	SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant) SPT BLOW/FT g	
-31.1	0.0		(CH) DK BLUE GRAY FAT CLAY, V/ SOFT, STRONG ORG COLOR, NO VISIBLE ORG MATTER.		1	HOLE DRILLED UNDER WATER. 0	
	1.5		NO RECOVERY - SAME AS ABOVE		-	3' SHELBY SAMPLER ATTEMPT MADE, EL. 34.6 - 35.6. SAND TOO DENSE FOR SAMPLER TO PENETRATE APPRECIABLE SAMPLE DEPTH. 0	
-34.1	3.0		(SM) MED. GRAY SILTY SAND, FINE GRAIN, DENSE.		2	33	
-35.6	4.5					B.O.H.	

ENG FORM 1836
(CADD Facsimile)

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PROJECT

GULFPORT SHIP CHANNEL

C-110

HOLE NO.

GSC-5-62

DRILLING LOG		DIVISION	INSTALLATION		Hole No.	GSC-6-62
		SOUTH ATLANTIC	MOBILE DISTRICT		SHEET 1	OF 1 SHEETS
1. PROJECT GULFPORT SHIP CHANNEL			21. SIZE AND TYPE OF BIT SPT			
2. LOCATION (Coordinates or Station) ZONE MS E: N 222180 E 440650			22. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT			23. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (As shown on drawing title and file number) GSC-6-62			24. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 2		25. UNDISTURBED	
5. NAME OF DRILLER LAMBERT			26. ELEVATION GROUNDWATER SEE 'REMARKS'			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL			27. DATE HOLE 12 FEB 62		28. COMPLETED 12 FEB 62	
7. THICKNESS OF OVERBURDEN			29. ELEVATION TOP OF HOLE -29.8			
8. DEPTH DRILLED INTO ROCK			30. TOTAL CORE RECOVERY FOR BORING			
9. TOTAL DEPTH OF HOLE 6.0' (EL.-35.8)			31. SIGNATURE OF INSPECTOR SAWYER		32. DRAFTED / CHECKED RC	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-29.8	0.0		(CH) DK BLUE GRAY FAT CLAY, STRONG ORG COLOR, SOFT, SEMI-FLUID, NO VISIBLE ORG MATTER.		1	HOLE DRILLED UNDER WATER. 0
	1.5		NO RECOVERY - AS ABOVE.		-	UNSUCCESSFUL 3' SHELBY TUBE SAMPLING ATTEMPT. MATERIAL TOO SOFT. 0
	3.0		(CH) DK BLUE GRAY FAT CLAY, SAME AS ABOVE.		2	0
	4.5		NO RECOVERY - ASSUMED, DUE TO EASE OF PENETRATION, SAME AS ABOVE MATL'. 0		-	
-35.8	6.0					R.O.H.

ENG FORM 1836
(CADD Facsimile)

JAN. 15 1966

PROJECT

GULFPORT SHIP CHANNEL

C-111

HOLE NO.

GSC-6-62

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION MOBILE DISTRICT		Hole No. GSC-7-62		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL				10. SIZE AND TYPE OF BIT SPT					
2. LOCATION (Coordinates or Station) ZONE MS E: N 216600 E 444700				11. DATUM FOR ELEVATION SHOWN (TBM, MSL, or NGVD) MLW					
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE					
4. HOLE NO. (As shown on drawing title and the number) GSC-7-62				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED		UNDISTURBED	
5. NAME OF DRILLER LAMBERT				14. TOTAL NUMBER CORE BOXES					
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				15. ELEVATION GROUNDWATER		• SEE 'REMARKS'			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED 13 FEB 62		COMPLETED 13 FEB 62	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE		-32.3			
9. TOTAL DEPTH OF HOLE 4.5' (EL. -36.8)				18. TOTAL CORE RECOVERY FOR BORING					
				19. SIGNATURE OF INSPECTOR SAWYER		DRAFTED		CHECKED RC	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant! g SPT BLows/ft			
-32.3	0.0		(CH) DK BLUE GRAY FAT CLAY. STRONG ORG COLOR, NO VISIBLE ORG MATTER.		1	HOLE DRILLED UNDER WATER. 0			
	1.5		NO SAMPLE ASSUMED SAME TYPICAL MATL' AS ABOVE DUE TO EASE OF PENETRATION.			0			
-36.8	4.5					B.O.H.			
						UNSUCCESSFUL 3' SHELBY TUBE SAMPLING ATTEMPT. MATL' TOO SOFT.			

DRILLING LOG		DIVISION SOUTH ATLANTIC		Hole No. GSC-8-62		INSTALLATION MOBILE DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL				10. SIZE AND TYPE OF BIT SPT		11. D. D. FOR ELEVATION SHOWN (TBM, MSL, or NGVD) MLW			
2. LOCATION (Coordinates or Station) ZONE MS E: N 210610 E 449100				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE					
3. DRILLING AGENCY MOBILE DISTRICT				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED		UNDISTURBED	
4. HOLE NO. (As shown on drawing title and file number) GSC-8-62				14. TOTAL NUMBER CORE BOXES					
5. NAME OF DRILLER LAMBERT				15. ELEVATION GROUNDWATER SEE 'REMARKS'					
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				16. DATE HOLE		STARTED 13 FEB 62		COMPLETED 13 FEB 62	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE -32.5					
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING					
9. TOTAL DEPTH OF HOLE 3.0' (EL. -35.5)				19. SIGNATURE OF INSPECTOR SAWYER DRAFTED RC					
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS Description d	% CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc. If significant, SPT BLOW/FT			
-32.5	0.0		(CH) DK BLUE GRAY FAT, TYPICAL. V/ SOFT, ORG COLORING, NO VISIBLE ORG MATTER.		1	DRILLED UNDER WATER. 0			
	1.5		NO SAMPLE - SAME AS ABOVE.		-	0			
-35.5	3.0						B.O.H.		
						3' SHELBY TUBE ATTEMPT UNSUCCESSFUL, MATL' TOO SOFT.			

ENG FORM 1036
(CADO Facsimile) JAN. 15 1968


PROJECT

GULFPORT SHIP CHANNEL

HOLE NO.

GSC-8-62

Hole No. GSC-9-62

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION MOBILE DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL				10. SIZE AND TYPE OF BIT SPT			
2. LOCATION (Coordinates or Station) ZONE MS E: N 204100 E 452390				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (As shown on drawing title and file number) GSC-9-62		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 1		14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUNDWATER * SEE 'REMARKS'	
5. NAME OF DRILLER LAMBERT				16. DATE HOLE STARTED 12 FEB 62 COMPLETED 12 FEB 62		17. ELEVATION TOP OF HOLE -34.6	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				18. TOTAL CORE RECOVERY FOR BORING		19. SIGNATURE OF INSPECTOR SAWYER	
7. THICKNESS OF OVERBURDEN				20. ELEVATION TOP OF HOLE -34.6		21. DRAFTED / CHECKED RC	
8. DEPTH DRILLED INTO ROCK				22. TOTAL CORE RECOVERY FOR BORING		23. SIGNATURE OF INSPECTOR SAWYER	
9. TOTAL DEPTH OF HOLE 15' (EL. -36.1)				24. SIGNATURE OF INSPECTOR SAWYER		25. SIGNATURE OF INSPECTOR RC	
ELEVATION a -34.6	DEPTH b 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR R.C. e	SAMPLE NO. f	REMARKS (Drilling time, water level, depth of weathering, etc., if significant) g SPT BLows/FT	
-36.1	1.5		(CH) DK BLUE GRAY FAT CLAY, V/ SOFT, SEMI-FLUID, ORG COLOR, NO VISIBLE ORG MATTER.		1	HOLE DRILLED UNDER WATER. 0 B.O.H. UNSUCCESSFUL 3' SHELBY ATTEMPT, TOO SOFT.	

ENG FORM 1036
(CADD Facsimile)

JAN. 15 1962

PROJECT

GULFPORT SHIP CHANNEL

HOLE NO.

GSC-9-62

C-114

DRILLING LOG		DIVISION SOUTH ATLANTIC		Hole No. GSC-10-62		SHEET 1 OF 2 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL		10. SIZE AND TYPE OF BIT SHELBY, OPEN END PIPE		11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
2. LOCATION (Coordinates or Station) ZONE MS: E: N 245200 E 419900		12. MANUFACTURER'S DESIGNATION OF DRILL SMALL BOAT		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 2 UNDISTURBED 1	
3. DRILLING AGENCY MOBILE DISTRICT		14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUNDWATER • SEE 'REMARKS'			
4. HOLE NO. (As shown on drawing title and file number) GSC-10-62		16. DATE HOLE		STARTED 12 FEB 62		COMPLETED 12 FEB 62	
5. NAME OF DRILLER LAMBERT		17. ELEVATION TOP OF HOLE -3.3		18. TOTAL CORE RECOVERY FOR BORING			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL		19. SIGNATURE OF INSPECTOR SAWYER		INITIALS RC		CHECKED	
7. THICKNESS OF OVERBURDEN		8. DEPTH DRILLED INTO ROCK		9. TOTAL DEPTH OF HOLE 26.7' (EL. -30.0)			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc. If significant g	
-3.3	0.0					HOLE DRILLED UNDER WATER	
	2.0		NOT SAMPLED			DUE TO SHALLOW WATER & MANEUVERABILITY OF BARGE, SAMPLING OF THIS LOCATION WAS BY MEANS OF OPEN END PIPE FROM SMALL BOAT. OPEN END PIPE WAS EASILY PUSHED BY HAND.	
-7.3	4.0						
	6.0		(CH) DK GRAY FAT CLAY, MARINE TYPE, 3' SHELBY TUBE SEALED SAMPLE		UD #1		
-11.3	8.0						
	10.0		(CH) DK BLUE GRAY FAT CLAY, EXTREMELY SOFT, W/ FINE SAND CONTENT		1		
-13.3	10.0						
	12.0		NOT SAMPLED				
-17.3	14.0						

ENG FORM 1036
(CADD Facsimile)

JAN. 15 1966

GULFPORT SHIP CHANNEL

C-115

GSC-10-62

DRILLING LOG		DIVISION	Hole No.		SHEET
		SOUTH ATLANTIC	MOBILE DISTRICT		1
PROJECT		MOBILE DISTRICT		OF 2 SHEETS	
1. PROJECT		GULFPORT SHIP CHANNEL		SPT AUGER	
2. LOCATION (Coordinates or Station)		ZONE MS. E: N 238050 E 425100		DATE FOR ELEVATION SHOWN (TBM, MSL, or NGVD)	
3. DRILLING AGENCY		MOBILE DISTRICT		MLW	
4. HOLE NO. (as shown on drawing title and file number)		GSC-II-62		12. MANUFACTURER'S DESIGNATION OF DRILL BARGE	
5. NAME OF DRILLER		LAMBERT		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	
6. DIRECTION OF HOLE		14. TOTAL NUMBER CORE BOXES		10	
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL		15. ELEVATION GROUNDWATER	
7. THICKNESS OF OVERBURDEN		16. DATE HOLE		STARTED 2 FEB 62 COMPLETED 2 FEB 62	
8. DEPTH DRILLED INTO ROCK		17. ELEVATION TOP OF HOLE		-8.5	
9. TOTAL DEPTH OF HOLE		36.7' (EL. -45.2)		18. TOTAL CORE RECOVERY FOR BORING	
		19. SIGNATURE OF INSPECTOR		MOORE	
				DRAFTED / CHECKED RC	


ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	X CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant g
-8.5	0.0					HOLE DRILLED UNDER WATER.
	2.0		(CH) DK GRAY FAT CLAY, TYPICAL, V/ SOFT, SEMI-FLUID, NO VISIBLE ORG MATTER.		1	0
	3.0					
	4.0		(CH) DK GRAY FAY CLAY, TYPICAL, V/ SOFT, SEMI-FLUID, NO VISIBLE ORG MATTER		2	0
	6.0					
	8.0		(CH) DK GRAY FAT CLAY, TYPICAL, V/ SOFT, SEMI-FLUID, NO VISIBLE ORG MATTER		3	0
	9.0					
	10.0		(CH) DK GRAY FAT CLAY, TYPICAL, V/ SOFT, SEMI-FLUID, NO VISIBLE ORG MATTER		4	0
	12.0					
			NO SAMPLE - (CH) AS ABOVE TO APPROX. D. 13.5, THEN FAT CLAY W/ CLAYEY FINE SANDS IN MINUTE LAYERS.			0
-22.5	14.0					

ENG FORM 1036
(CADD Facsimile) JAN 15 1966.

PROJECT GULFPORT SHIP CHANNEL

HOLE NO. GSC-II-62

DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE	Hole No.		SHEET 2 OF 2 SHEETS	
PROJECT			INSTALLATION	MOBILE DISTRICT			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant g	
-22.5	14.0		NO SAMPLE - (CH) AS ABOVE TO APPROX. D. 13.5, THEN FAT CLAY W/ CLAYEY FINE SANDS IN MINUTE LAYERS.		-		
-23.5	15.0						
	16.0		(CL) GRAY LEAN CLAY, SANDY, HIGHLY PLASTIC, W/ CLAYEY FINE SAND (SC) IN SMALL LAYERS, SOFT.		6	0	
-26.5	18.0		(SC) LT BROWN & GRAY CLAYEY FINE SAND		7	17	
-28.0	19.5						
	20.0		NO SAMPLE		-	AUGER	
-29.5	21.0						
			(SC) BROWN & GRAY CLAYEY FINE SAND W/ SAND & CLAY LAYERS		8	9	
-31.0	22.5						
-31.5	23.0		NO SAMPLE		-	WR	
			(SC) BROWN & GRAY CLAYEY FINE SAND		9	9	
-33.0	24.5						
			NO SAMPLE RETAINED, GRAY AND BROWN (CL), SOFT		-		
-35.2	26.7						
			(SC) GRAY CLAYEY FINE SANDS		10	5	
-36.7	28.2					B.O.H.	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION MOBILE DISTRICT		Hole No. GSC-12-62 SHEET 1 OF 2 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL				10. SIZE AND TYPE OF BIT SPT			
2. LOCATION (Coordinates or Station) ZONE MS E: N 222300 E 436700				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (As shown on drawing title and file number) GSC-12-62				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. DISTURBED 8 UNDISTURBED	
5. NAME OF DRILLER LAMBERT				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				15. ELEVATION GROUNDWATER • SEE 'REMARKS'			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 13 FEB 62 COMPLETED 13 FEB 62		17. ELEVATION TOP OF HOLE -15.5	
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING			
9. TOTAL DEPTH OF HOLE 22.5' (EL. -38.0)				19. SIGNATURE OF INSPECTOR SAWYER		20. DRAFTED RC CHECKED	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc. If significant) g SPT BLOW/FT	
-15.5	0.0					HOLE DRILLED UNDER WATER.	
	2.0		(CH) DK BLUE GRAY FAT CLAY, TYPICAL, V/ SOFT, SEMI-FLUID, ORG COLOR, NO VISIBLE ORG MATTER.		1	0	
	4.0		(CH) DK BLUE GRAY FAT CLAY, SAME AS ABOVE, SLIGHT DECREASE IN W.C. SLIGHT INCREASE IN CONSISTENCY, MAT'L STILL ZERO BLOW COUNT.		2	0	
	6.5		(CH) SAME AS ABOVE		3	0	
	8.0						
	10.0		NO SAMPLE RETAINED (CH) SAME AS ABOVE		-	0	
	12.0		(CH) SAME AS ABOVE		4	0	
-29.5	14.0						

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(CADD Facsimile) JAN 15 1968

PROJECT GULFPORT SHIP CHANNEL

FILE NO. GSC-12-62

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No.		
PROJECT		INSTALLATION		SHEET 2 OF 2 SHEETS		
GULFPORT SHIP CHANNEL		MOBILE DISTRICT				
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g SPT BLOWS/FT
-29.5	14.0		(CH) SAME AS ABOVE		4	
-30.5	15.0		(CH) SAME AS ABOVE		5	0
	16.0					
-33.5	18.0		(CL) GRAY SANDY CLAY- CLAY CONTENT VERY ACTIVE, PLASTIC, ORG GRAY COLOR.		6	1
-35.0	19.5					
-36.5	21.0		(CL) GRAY SANDY CLAY, SAME AS ABOVE.		7	8
-38.5	23.0		(SC) GRAY CLAYEY SAND		8	24
						B.O.H.

DRILLING LOG		DIVISION SOUTH ATLANTIC		Hole No. GSC-13-62		SHEET 1 OF 2 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL				10. SIZE AND TYPE OF BIT. SPT			
2. LOCATION (Coordinates or Station) ZONE MS E: N 208800 E 446500				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (as shown on drawing title and file number) GSC-13-62				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6 UNDISTURBED	
5. NAME OF DRILLER LAMBERT				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				15. ELEVATION GROUNDWATER • SEE 'REMARKS'			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED 12 FEB 62 COMPLETED 12 FEB 62	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -16.5			
9. TOTAL DEPTH OF HOLE 18.5', (EL. -35.0)				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR SAWYER		DRAFTED: RC CHECKED:	
ELEVATION a -16.5	DEPTH b 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant) g SPT BLOWS/FT	
	2.0		(SC) MED GRAY CLAYEY SAND, FINE GRAIN-		1	HOLE DRILLED UNDER WATER	
	3.0					0	
	4.5		(SM) MED GRAY SILTY SAND, FINE GRAIN		2	14	
	6.0		NO SAMPLE - ASSUMED (SM) SAME AS ABOVE.		-	16	
	7.5		(SM) MED GRAY SILTY SAND, FINE GRAIN W/ BITS & FRAGMENTS OF SHELLS		3	40	
	9.0		NO SAMPLE - ASSUMED (SM) AS ABOVE W/ SHELL BITS			40	
	10.5		(SM) MED GRAY SILTY SAND, FINE GRAIN		4	45	
	12.0		NO SAMPLE - SAME AS ABOVE AND BELOW.		-	50+	
	13.5		(SM) MED GRAY SILTY SAND, FINE GRAIN		5	50+	
-30.5	14.0						


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PROJECT

GULFPORT SHIP CHANNEL

HOLE NO.

GSC-13-62

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION MOBILE DISTRICT		Hole No. GSC-14-62 SHEET 1 OF 2 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL				10. SIZE AND TYPE OF BIT SPT			
2. LOCATION (Coordinates or Station) ZONE MS. E: N 240480 E 428480				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (As shown on drawing title and file number) GSC-14-62		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 10		DISTURBED 10		UNDISTURBED	
5. NAME OF DRILLER LAMBERT				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				15. ELEVATION GROUNDWATER • SEE 'REMARKS'			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 30 JAN 62		COMPLETED 30 JAN 62	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -9.5			
9. TOTAL DEPTH OF HOLE 28.2', (EL. -37.7)				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR SAWYER		DRAFTED RC	
ELEVATION a -9.5	DEPTH b 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant g SPT BLOWS/FT	
	2.0		(CH) DK GRAY FAT CLAY, ORGANIC COLOR & ODOR, V/ SOFT NO VISIBLE ORGANIC MATTER PRESENT.		1	HOLE DRILLED UNDER WATER. 0	
	4.0		(CH) DK GRAY FAT CLAY - SAME AS ABOVE		2	0	
	6.0		(CH) DK GRAY FAT CLAY - SAME AS ABOVE		3	0	
	8.0				4	0	
	10.0		(CH) DK GRAY FAT CLAY - SAME AS ABOVE		5	0	
	12.0		(CH) DK GRAY FAT CLAY - SAME AS ABOVE			0	
-23.5	14.0						

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(CADO Facsimile) JAN. 5 1960

PROJECT

GULFPORT SHIP CHANNEL
C-123

HOLE NO.

GSC-14-62

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE -9.5		Hole No. GSC-14-62		
PROJECT GULFPORT SHIP CHANNEL			INSTALLATION MOBILE DISTRICT		SHEET 2 OF 2 SHEETS	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	BOX OR SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant g SPT BLOWS/FT
-23.5	14.0		(CH) DK GRAY FAT CLAY - SAME AS ABOVE		JAR #5	
	15.0					
	16.0		(CH) DK GRAY FAT CLAY - SAME AS ABOVE		JAR #6	0
	18.0					
	20.0		(CH) DK GRAY FAT CLAY - SAME AS ABOVE W/ SLIGHT INCREASE IN CONSISTENCY & RESISTANCE AS DEPTH INCREASES.		JAR #7	0
	21.0					
	22.0		(CH) DK GRAY FAT CLAY W/SLIGHT FINE SAND CONTENT - INCREASE IN CONSISTENCY		JAR #8	0
-33.5	24.0					
-34.2	24.7		NO SAMPLE			
	26.2		(CL) & (SC) GRAY SANDY CLAY, HIGHLY PLASTIC W/ CLAYEY FINE SAND CONTENT, W/ CLAY CONTENT ACTIVE.		JAR #9	8
			(CL) GRAY & YELLOW SANDY CLAY, STIFF W/ YELLOW (CH) FAT CLAY IN MOTTLED GRAY & YELLOW PATTERN.		JAR #10	21
-37.7	28.2					B.O.H.

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No.		
PROJECT		INSTALLATION		SHEET 2 OF 2 SHEETS		
GULFPORT SHIP CHANNEL		MOBILE DISTRICT				
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant g
-28.5	14.0		(CH) GRAY FAT CLAY W/ SOME (CL) SANDY CLAY & (SC) CLAYEY SAND W/ BITS OF SHELL		5	
-29.5	15.0					
	16.0		(CL) GRAY & YELLOW SANDY CLAY, HIGHLY PLASTIC W/ YELLOW (CH) FAT CLAY IN MOTTLED YELLOW & GRAY PATTERN, CONSISTENCY BECOMING FIRMER		6	0
	18.0					
	19.5		(CL) ASSUMED SAME AS ABOVE - NO SAMPLE RETAINED IN SPOON		-	8
					7	
-36.0	21.5		(CL) GRAY & YELLOW SANDY CLAY			6
						B.O.H.

DRILLING LOG		DIVISION SOUTH ATLANTIC		Hole No. GSC-16-62		SHEET 1 OF 2 SHEETS	
1. PROJECT GULFPORT SHIP CHANNEL				10. SIZE AND TYPE OF BIT SPT			
2. LOCATION (Coordinates or Station) ZONE MS E: N 211400 E 450200				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (As shown on drawing title and file number) GSC-16-62				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5 UNDISTURBED	
5. NAME OF DRILLER LAMBERT				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				15. ELEVATION GROUNDWATER • SEE 'REMARKS'			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED 1 FEB 62 COMPLETED 1 FEB 62	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -21.5			
9. TOTAL DEPTH OF HOLE 16.0' (EL.-37.5)				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR MOORE		DRAFTED: RC CHECKED	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant g SPT BLOWS/FT	
	2.0		(CH) DK GRAY FAT CLAY, ORG COLOR & ODOR, V/ SOFT, SEMI-FLUID, NO VISIBLE ORG MATTER		1	0	
	4.0		(CH) DK GRAY FAT CLAY, SOFT, W/ MINUTE LAYERS OF SILTY FINE SAND (GRAY)		2	0	
	8.0		(CH) DK GRAY FAT CLAY, SAME AS ABOVE W/ BITS OF SHELL		3	0	
	10.0		(CH) DK GRAY FAT CLAY, SAME AS ABOVE		4	0	
	12.0		(CH) GRAY FAT CLAY, WITH FINE SILTY SAND LAYER, V/SMALL NO SAMPLE RETAINED		-	0	

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(CADD Footnote)

PROJECT

GULFPORT SHIP CHANNEL

HOLE NO.

GSC-16-62

DRILLING LOG		DIVISION SOUTH ATLANTIC		Hole No. P-1		SHEET 1 OF 2 SHEETS	
1. PROJECT GULFPORT HARBOR, MS.				10. SIZE AND TYPE OF BIT ?			
2. LOCATION (Coordinates or Station) 8000' RT. ANGLE TO BN 64				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (As shown on drawing title and file number) P-1				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. UNDISTURBED	
5. NAME OF DRILLER NIX				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				15. ELEVATION GROUNDWATER * SEE 'REMARKS'			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE ? Year		16. STARTED 4/23 COMPLETED 4/23	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -15.5			
9. TOTAL DEPTH OF HOLE 24.5' (EL. -40.0)				18. TOTAL CORE RECOVERY FOR BOREHOLE			
				19. SIGNATURE OF INSPECTOR FLOYD		19. DRAFTED / CHECKED WRS	
ELEVATION a -15.5	DEPTH b 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	BOX OR SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant g	
	3.0		(SC) DARK GRAY MUCK W/ FEW OYSTER SHELLS		B651	G.W. EL. N/A HOLE DRILLED UNDERWATER	
	6.0						
	9.0						
-28.0	12.5						
	15.0		(SM) SILTY SAND		X134		
	18.0						
-36.5	21.0						

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(CADD Facsimile)

PROJECT

GULFPORT HARBOR, MS.

HOLE NO.

P-1

DRILLING LOG		DIVISION SOUTH ATLANTIC		Hole No. P-2		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT HARBOR, MS.				10. SIZE AND TYPE OF BIT ?			
2. LOCATION (Coordinates or Station) 6000' RT. ANGLE TO BN. 64				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or MGD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (as shown on drawing title and file number) P-2				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES	
5. NAME OF DRILLER NIX				15. ELEVATION GROUNDWATER * SEE 'REMARKS'			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				16. DATE HOLE ? year		17. ELEVATION TOP OF HOLE -14.0	
7. THICKNESS OF OVERBURDEN				18. DATE HOLE 4/23		19. TOTAL CORE RECOVERY FOR BORING	
8. DEPTH DRILLED INTO ROCK				19. SIGNATURE OF INSPECTOR FLOYD		20. DRAFTED / CHECKED WRS	
9. TOTAL DEPTH OF HOLE 12.0', (EL. -26.0)							
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR R.C. e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g SPT BLDS/FT	
-14.0	0.0						
	3.0						
	6.0		(SM-SC) DARK GRAY MUCK W/ SANDY CLAY		X136	G.W. EL. N/A HOLE DRILLED UNDERWATER	
	9.0						
-26.0	12.0					B.O.H.	

ENG FORM 1836
(CADD Footnote)

GULFPORT HARBOR, MS.

P-2

DRILLING LOG		DIVISION SOUTH ATLANTIC		Hole No. P-3		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT HARBOR, MS.				10. SIZE AND TYPE OF BIT F/T			
2. LOCATION (Coordinates or Station) 4000' RT. ANGLE TO BN 64				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) M.L.W.			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (as shown on drawing title and TBM NUMBER) P-3				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES	
5. NAME OF DRILLER NIX				15. ELEVATION GROUNDWATER • SEE 'REMARKS'			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				16. DATE HOLE P year		17. ELEVATION TOP OF HOLE -12.5	
7. THICKNESS OF OVERBURDEN				18. DATE HOLE STARTED 4/23		19. DATE HOLE COMPLETED 4/23	
8. DEPTH DRILLED INTO ROCK				20. ELEVATION TOP OF HOLE		21. TOTAL CORE RECOVERY FOR BORING	
9. TOTAL DEPTH OF HOLE 19.4' (EL.-31.9)				22. SIGNATURE OF INSPECTOR FLOYD		23. DRAFTED / CHECKED WRS	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
-12.5	0.0						
	3.0						
	6.0						
	9.0		(SM) DARK GRAY MUCK W/ SANDY CLAY		X137		
	12.0						
	15.0						
-31.9	19.4					B.O.H.	


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(CADD Footings) JAN. 27 1988

PROJECT

GULFPORT HARBOR, MS.

HOLE NO.

P-3

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION MOBILE DISTRICT		Hole No. P-4 SHEET 1 OF 2 SHEETS	
1. PROJECT GULFPORT HARBOR, MS.				10. SIZE AND TYPE OF BIT F/T			
2. LOCATION (Coordinates or Station) 2000' RT. ANGLE TO BN 64				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (As shown on drawing title and file number) P-4				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. RETURNED UNRETURNED	
5. NAME OF DRILLER NIX				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				15. ELEVATION GROUNDWATER • SEE 'REMARKS'			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE P year		16. STARTED 4/23 COMPLETED 4/23	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -11.0			
9. TOTAL DEPTH OF HOLE 41.0' (EL.-52.0)				18. TOTAL CORE RECOVERY FOR BORING		18. SIGNATURE OF INSPECTOR FLOYD	
						18. DRAFTED WRS CHECKED	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	BOX OR SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant g	
-11.0	0.0		(CH) DARK GRAY MUCK W/ SILTY SAND		X144	G.W. N/A HOLE DRILLED UNDERWATER	
	3.0						
	6.0						
	9.0						
	12.0						
	15.0						
	18.0						
-32.0	21.0						




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PROJECT

GULFPORT HARBOR, MS.

HOLE NO.

P-4

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE -11.0		Hole No. P-4		
PROJECT GULFPORT HARBOR, MS.			INSTALLATION MOBILE DISTRICT		SHEET 2 OF 2 SHEETS	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g SPT BLOWS/FT
-32.0	21.0		(CH) DARK GRAY MUCK W/ SILTY SAND		X144	
-36.5	25.5					
	27.0		(SC) CLAYEY SAND W/FEW OYSTER SHELLS		X128	
	30.0					
-43.0	32.0		SAMPLE NOT DESCRIBED		A351	
-52.0	41.0					B.O.H.


ENG FORM 1536-A JAN. 27 1988
(CADD Facility)

PROJECT

GULFPORT HARBOR, MS.

HOLE NO.

P-4

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION MOBILE DISTRICT		Hole No. P-6 SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT HARBOR, MS.				10. SIZE AND TYPE OF BIT F/T			
2. LOCATION (Coordinates or Station) 4000' LEFT ANGLE TO BN 64				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) M.L.W.			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (As shown on drawing title and file number) P-6				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 1 UNDISTURBED	
5. NAME OF DRILLER NIX				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				15. ELEVATION GROUNDWATER • SEE 'REMARKS'			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE ? year		STARTED 4/5 COMPLETED 4/5	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -12.0			
9. TOTAL DEPTH OF HOLE 14.1' (EL.-26.1)				18. TOTAL CORE RECOVERY FOR BORING		19. SIGNATURE OF INSPECTOR FLOYD DRAFTED WRS CHECKED	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR D.C. e	BOX OR SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant g	
-12.0	0.0						
	3.0		(SC) DARK GRAY MUCK W/ SANDY CLAY		A435	G.W. N/A HOLE DRILLED UNDERWATER	
	6.0						
	9.0						
	12.0						
-26.1	14.1						

ENG FORM 1836 JAN. 27 1988
(CADD Facsimile)

PROJECT

GULFPORT HARBOR, MS.

HOLE NO.

P-6

C-136

DRILLING LOG		DIVISION SOUTH ATLANTIC		Hole No. P-7		SHEET 1 OF 2 SHEETS	
1. PROJECT GULFPORT HARBOR, MS.				10. SIZE AND TYPE OF BIT F/T			
2. LOCATION (Coordinates or Station) 6000' LEFT ANGLE TO BN 64				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRELL BARGE			
4. HOLE NO. (as shown on drawing title and the number) P-7				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES	
5. NAME OF DRILLER NIX				15. ELEVATION GROUNDWATER		16. DATE HOLE <i>2 year</i> STARTED 4/22 COMPLETED 4/22	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				17. ELEVATION TOP OF HOLE -12.0		18. TOTAL CORE RECOVERY FOR BORING	
7. THICKNESS OF OVERBURDEN				19. SIGNATURE OF INSPECTOR FLOYD		19. SIGNATURE OF INSPECTOR WRS	
8. DEPTH DRILLED INTO ROCK				20. TOTAL DEPTH OF HOLE 27.0', (EL. -39.0)			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) SPT BLOBS/FT	
-12.0	0.0					G.W. N/A HOLE DRILLED UNDERWATER	
	3.0						
	6.0						
	9.0						
	12.0		(CH) DARK GRAY MUCK		X142		
	15.0						
	18.0						
-32.8	20.8		(CH) DARK GRAY CLAY W/ LITTLE SAND		8365		

ENG FORM 1836
(CADD Footnote) JAN. 27 1988

GULFPORT HARBOR, MS.

P-7

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION MOBILE DISTRICT		Hole No. P-8		SHEET 1 OF 2 SHEETS					
1. PROJECT GULFPORT HARBOR, MS.				10. SIZE AND TYPE OF BIT F/T									
2. LOCATION (Coordinates or Station) 8000' LEFT ANGLE TO BN 64				11. DATUM FOR ELEVATION SHOWN (TIDE, MSL or NGVD) MLW									
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE									
4. HOLE NO. (As shown on drawing title and file number) P-8				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 2		UNDISTURBED					
5. NAME OF DRILLER NIX				14. TOTAL NUMBER CORE BOXES									
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				15. ELEVATION GROUNDWATER • SEE 'REMARKS'									
7. THICKNESS OF OVERBURDEN				16. DATE HOLE P/year		STARTED 4/22		COMPLETED 4/22					
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -12.0									
9. TOTAL DEPTH OF HOLE 27.2', (EL. -39.2)				18. TOTAL CORE RECOVERY FOR BORING									
				19. SIGNATURE OF INSPECTOR FLOYD									
				DRAFTED WRS									
ELEVATION a		DEPTH b		LEGEND c		CLASSIFICATION OF MATERIALS (Description) d		% CORE RECOVERY OR W.C. e		BOX OR SAMPLE NO. f		REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
-12.0		0.0										G.W. N/A HOLE DRILLED UNDERWATER	
		3.0											
		6.0											
		9.0											
		12.0											
		15.0											
		18.0											
-32.4		20.4				(CH) DARK GRAY MUCK				475			
-33.0		21.0				(CL) DARK GRAY CLAY W/ LITTLE SAND				878			


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PROJECT

GULFPORT HARBOR, MS.

HOLE NO.

P-8

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION MOBILE DISTRICT		Hole No. 1 SHEET 1 OF 2 SHEETS	
1. PROJECT GULFPORT HARBOR				13. SIZE AND TYPE OF BIT F/T			
2. LOCATION (Coordinates or Station) ZONE MS E: N 248300 E 421400				14. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT				15. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (As shown on drawing title and file number) 1				16. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		17. DISTURBED 2 UNDISTURBED	
5. NAME OF DRILLER NIX				18. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				19. ELEVATION GROUNDWATER • SEE 'REMARKS'			
7. THICKNESS OF OVERBURDEN				20. DATE HOLE		21. STARTED COMPLETED	
8. DEPTH DRILLED INTO ROCK				22. ELEVATION TOP OF HOLE -13.0			
9. TOTAL DEPTH OF HOLE 22.5', (EL. -35.5)				23. TOTAL CORE RECOVERY FOR BORING			
				24. SIGNATURE OF INSPECTOR FLOYD		25. DRAFTED / CHECKED WRS	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR B.C. e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if signif./cont.) g SPT BLOWS/FT	
-13.0	0.0		(CH) DRAK GRAY MUCK		B24	G.W. N/A. HOLE DRILLED UNDERWATER	
	3.0						
	6.0						
	9.0						
	12.0						
	15.0						
	18.0						
	21.0						
-34.0	21.0						

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PROJECT

GULFPORT HARBOR
C-141

HOLE NO.

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION MOBILE DISTRICT		Hole No. 1-A SHEET 1 OF 2 SHEETS	
1. PROJECT GULFPORT HARBOR				10. SIZE AND TYPE OF BIT F/T			
2. LOCATION (Coordinates or Station) 90' FROM EDGE OF CHANNEL AT LEFT ANGLE TO FL-				11. DAYLIM FOR ELEVATION SHOWN (YES, NO or NOVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF TOOL BARGE			
4. HOLE NO. (as shown on drawing title and file number) 1-A				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		RETURNS UNDISTURBED	
5. NAME OF DRILLER NIX				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				15. ELEVATION GROUNDWATER • SEE 'REMARKS'			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED COMPLETED			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -10.5			
9. TOTAL DEPTH OF HOLE 25.0', (EL.-35.5)				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR FLOYD DRAFTED / CHECKED WRS			
ELEVATION a -10.5	DEPTH b 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR R.C. e	BOX OR SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc. If significant g SPT BLOW/FT	
	3.0		(CH) DRAK GRAY MUCK W/SANDY CLAY		B346	G.W. N/A. HOLE DRILLED UNDERWATER	
	6.0						
	9.0						
	12.0						
	15.0						
	18.0						
	21.0						
-31.5	21.0						

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PROJECT


GULFPORT HARBOR

HOLE NO.

1-A

C-143

DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE -10.5		Hole No.		I-A	
PROJECT GULFPORT HARBOR				INSTALLATION MOBILE DISTRICT			SHEET 2 OF 2 SHEETS	
ELEVATION a -31.5	DEPTH b 21.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if signif(cant)) g SPT BLOWS/FT		
			(CH) DRAK GRAY MUCK W/SANDY CLAY		B346			
-35.5	25.0					B.O.H.		

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION MOBILE DISTRICT		Hole No. 2 SHEET 1 OF 2 SHEETS	
1. PROJECT GULFPORT HARBOR				10. SIZE AND TYPE OF BIT F/T			
2. LOCATION (Coordinates or Station) ZONE MS E: N 242600 E 426000				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (As shown on drawing title and file number) 2				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER NIX				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				15. ELEVATION GROUNDWATER • SEE 'REMARKS'			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED COMPLETED	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -11.0			
9. TOTAL DEPTH OF HOLE 25.3', (EL.-36.3)				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR FLOYD		DRAFTED / CHECKED WRS	
ELEVATION a -11.0	DEPTH b 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	BOX OR SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc. (if significant) g SPT BLOCS/FT	
	3.0		(CH) DRAK GRAY MUCK		75	C.W. N/A. HOLE DRILLED UNDERWATER	
	6.0						
	9.0						
	12.0						
	15.0						
	18.0						
-32.0	21.0						

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PROJECT


GULFPORT HARBOR

HOLE NO.

2

3

DRILLING LOG		DIVISION SOUTH ATLANTIC		Hole No. 4		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT HARBOR		10. SIZE AND TYPE OF BIT F/T		11. DATUM FOR ELEVATION SHOWN (TBM, MSL, or NGVD) MLW			
2. LOCATION (Coordinates or Station) ZONE MS E: N 229267 E 435700		12. MANUFACTURER'S DESIGNATION OF DRILL BARGE					
3. DRILLING AGENCY MOBILE DISTRICT		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CONE BOXES			
4. HOLE NO. (As shown on drawing title and file number) 4		15. ELEVATION GROUNDWATER • SEE 'REMARKS'		16. DATE HOLE		17. ELEVATION TOP OF HOLE -15.5	
5. NAME OF DRILLER NIX		18. TOTAL CORE RECOVERY FOR BORING		19. SIGNATURE OF INSPECTOR FLOYD		20. DRAFTED: WRS CHECKED:	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL		7. THICKNESS OF OVERBURDEN		8. DEPTH DRILLED INTO ROCK		9. TOTAL DEPTH OF HOLE 17.5', (EL. -33.0)	
ELEVATION a -15.5	DEPTH b 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	BOX OR SAMPLE NO. f X125	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g SPT BLOWS/FT	
	3.0					G.W. N/A. HOLE DRILLED UNDERWATER	
	6.0						
	9.0						
	12.0						
	15.0						
-33.0	17.5						

DRILLING LOG		DIVISION SOUTH ATLANTIC		Hole No. 5		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT HARBOR				10. SIZE AND TYPE OF BIT F/T			
2. LOCATION (Coordinates or Station) ZONE MS E: N 219600 E 442733				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (As shown on drawing title and the number) 5				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 1 UNDISTURBED	
5. NAME OF DRILLER NIX				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				15. ELEVATION GROUNDWATER ° SEE 'REMARKS'			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED COMPLETED	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -15.5			
9. TOTAL DEPTH OF HOLE 15.5' (EL. -31.0)				18. SIGNATURE OF INSPECTOR FLOYD		DRAFTED WRS CHECKED	
ELEVATION a -15.5	DEPTH b 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR W.C. e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	3.0		(SC-H) DARK GRAY MUCK W/ SAND		56	G.W. N/A. HOLE DRILLED UNDERWATER	
	6.0						
	9.0						
	12.0						
-31.0	15.5					B.O.H.	

Hole No.

6

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION MOBILE DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT GULFPORT HARBOR				10. SIZE AND TYPE OF BIT F/T			
2. LOCATION (Coordinates of Station) ZONE MS E: N 205933 E 452833				11. DATUM FOR ELEVATION SHOWN (TBM, MSL or NGVD) MLW			
3. DRILLING AGENCY MOBILE DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL BARGE			
4. HOLE NO. (as shown on drawing title and tag number) 6				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER NIX				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERTICAL				15. ELEVATION GROUNDWATER • SEE 'REMARKS'			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED COMPLETED			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -23.0			
9. TOTAL DEPTH OF HOLE 2.5' (EL.-25.5)				18. SIGNATURE OF INSPECTOR FLOYD WRS			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY OR R.C. e	BOX OR SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant g SPT BLOW/FT	
-23.0	0.0		(SM) SILTY SAND		X132	G.W. N/A. HOLE DRILLED UNDERWATER	
-25.5	2.5					B.O.H.	

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 (CADD Footings) JAN. 27 1988

PROJECT

GULFPORT HARBOR

HOLE NO.

6

C-150

SUMMARY OF TEST RESULTS

GULFPORT HARBOR AND CHANNEL IMPROVEMENTS, GENERAL DESIGN MEMORANDUM
LABORATORY TEST RESULTS FROM SAMPLES OBTAINED VIA 1987 VIBRACORE BORINGS

FILE NAME PORT																		
BORING	SAMPLE EL. MLW	LAB CLASS	FIELD CLASS	% WATER	LIQ. LIMIT	PLAS. LIMIT	PI	LOI	SPEC GRAV	DRY WT.	SAT. WT. (CALC'D)	TOR TSF	PEN TSF	C TSF	PHI	q TSF	SIEV PETR ANAL	ANAL
GP-1-87	-33.4/-33.9	CH	ML	266	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-42.4/-42.9	SP	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	MA	-
	-33.4/-33.9	CH	ML	281	-	-	-	9.6	2.67	-	80	-	-	-	-	-	-	-
GP-2-87	-35.3/-35.8	SP-SH	SH	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-27.3/-30.3	CH	ML	186	157	49	108	9.9	2.57	26.9	95	-	-	-	-	-	MA/HY	-
	-30.3/-33.3	CH,SC,SP	SM	18	-	-	-	-	-	97.4	115	-	-	-	-	-	-	-
GP-3-87	-33.3/-36.3	CL	SM	22	26	17	9	-	2.62	103.3	128	-	-	-	-	-	MA/HY	-
	-36.3/-39.3	SM	SM	22	-	-	-	-	-	105.7	129	-	-	-	-	-	-	-
	-39.3/-40.5	-	ML	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-4-87	-40.9/-41.4	-	CH	-	-	-	-	-	-	-	-	0.29	0.5	-	-	-	-	-
GP-5-87	-31.6/-32.1	CH	ML	185	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-35.6/-36.1	CH	CH	81	-	-	-	-	-	-	-	0.21	0.7	-	-	-	-	-
	-39.6/-40.1	SM	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-6-87	-42.6/-43.1	SP	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-44.4/-44.9	SM	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-34.3/-34.8	CH	ML	190	-	-	-	9.4	-	-	-	-	-	-	-	-	-	-
GP-7-87	-40.3/-40.8	CH	CH	86	-	-	-	-	-	-	-	0.20	0.25	-	-	-	MA	-
	-46.3/-46.8	-	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-33.9/-34.4	CH	ML	200	164	50	114	-	-	-	-	-	-	-	-	-	-	-
GP-8-87	-38.1/-38.7	-	CH	-	-	-	-	-	-	-	-	0.05	0.9	-	-	-	-	-
	-39.5/-40.0	SM	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-42.9/-43.4	SC	CH	35	-	-	-	-	-	-	-	0.09	0.4	-	-	-	-	-
GP-9-87	-45.6/-46.1	CH	CH	59	-	-	-	-	-	-	-	0.13	0.5	-	-	-	-	-
	-14.8/-17.8	CH	ML	147	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-17.8/-20.8	CH	ML	-	-	-	-	-	-	-	-	-	-	-	-	-	MA/HY	-
GP-10-87	-20.8/-23.8	CH	ML	98	74	22	52	6.5	2.65	45.4	92	-	-	-	-	-	MA/HY	-
	-23.8/-26.8	CH	SC	57	54	16	38	-	2.64	65.9	104	-	-	-	-	-	MA/HY	-
	-26.8/-29.5	-	CH	-	-	-	-	-	-	-	-	0.15	0.5	-	-	-	-	-
GP-10-87	-35.3/-35.8	CH	ML	223	-	-	-	9.3	2.64	-	78	-	-	-	-	-	MA	-
	-42.3/-42.8	SP	SM	27	NP	NP	NP	-	-	-	-	-	-	-	-	-	MA/HY	-
	-29.1/-29.6	CH	MH	90	83	27	56	-	-	-	-	0.05	0.0	-	-	-	MA	-
	-36.6/-37.1	-	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

GULFPORT HARBOR AND CHANNEL IMPROVEMENTS, GENERAL DESIGN MEMORANDUM
LABORATORY TEST RESULTS FROM SAMPLES OBTAINED VIA 1987 VIBRACORE BORINGS

BORING	SAMPLE EL. MLLW	LAB CLASS	FIELD CLASS	WATER %	LIQ. LIMIT	PLAS. LIMIT	PI	LOI	SPEC GRAV	WT. DRY	SAT. (CALC'D)	TOR TSF	PEN TSF	C TSF	PHI	q TSF	SIEV PETR ANAL ANAL
GP-11-87	-33.9/-36.9	CH, SC	CH	43	73	23	50	-	-	75.9	109	-	-	-	-	-	-
	-36.9/-39.9	SM	SM	23	-	-	-	-	-	98.1	121	-	-	-	-	-	MA
GP-12-87	-43.9/-44.4	SP-SM	SM	23	-	-	-	-	-	-	-	-	-	-	-	-	-
	-29.8/-30.3	SC	ML	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-32.3/-32.8	SM	SM	-	-	-	-	-	-	-	-	0.18	0.25	-	-	-	-
	-38.5/-39.0	SM-SC	SC	21	22	15	7	-	2.60	-	128	0.08	0.4	-	-	-	MA/HY
	-44.6/-45.1	SC	CL	34	40	16	24	-	2.63	-	117	0.22	0.25	-	-	-	MA/HY
GP-13-87	-36.2/-36.7	SP	SM	-	NP	NP	NP	-	-	-	-	-	-	-	-	-	MA
	-46.2/-46.7	CH	CH	37	56	16	40	-	-	-	-	0.3	0.5	-	-	-	-
GP-14-87	-33.3/-36.3	SP-SM	SP	25	NP	NP	NP	-	-	83.8	105	-	-	-	-	-	MA
	-36.3/-39.3	SP	SP	-	NP	NP	NP	-	-	-	-	-	-	-	-	-	MA YES
	-39.3/-42.3	SP	SP	20	NP	NP	NP	-	-	94.2	113	-	-	-	-	-	MA
	-44.5/-45.0	SC	CH	37	49	18	31	-	-	-	-	0.19	0.4	-	-	-	-
	-50.3/-50.8	CH	CH	37	-	-	-	-	-	-	-	0.27	0.4	-	-	-	-
GP-15-87	-29.9/-30.4	SP	SP	-	NP	NP	NP	-	-	-	-	-	-	-	-	-	MA YES
GP-16-87	-24.8/-25.3	SP	SP	-	NP	NP	NP	-	-	-	-	-	-	-	-	-	MA
	-34.8/-35.3	SC	CL	34	-	-	-	-	-	-	-	0.12	0.25	-	-	-	-
	-38.8/-39.3	SM	SM	21	-	-	-	-	-	-	-	-	-	-	-	-	-
	-43.8/-44.3	SM	ML	29	-	-	-	-	-	-	-	-	-	-	-	-	-
	-45.8/-46.3	CH	CH	-	-	-	-	-	-	-	-	0.15	0.05	-	-	-	-
GP-17-87	-19.4/-19.9	SP-SM	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-23.4/-23.9	SP	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-29.9/-30.4	-	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	MA
	-34.9/-35.4	-	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-18-87	-33.1/-33.6	SP	SP	-	NP	NP	NP	-	-	-	-	-	-	-	-	-	MA
GP-19-87	-23.4/-23.9	-	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	MA
	-36.9/-37.4	SM-SC	SC	21	20	15	5	-	-	-	-	-	-	-	-	-	-
	-42.9/-43.4	CH	ML	32	25	24	1	-	-	-	-	0.11	0.1	-	-	-	-
GP-20-87	-41.3/-41.8	SP	SM	-	NP	NP	NP	-	-	-	-	-	-	-	-	-	MA

GULFPORT HARBOR AND CHANNEL IMPROVEMENTS, GENERAL DESIGN MEMORANDUM
LABORATORY TEST RESULTS FROM SAMPLES OBTAINED VIA 1987 VIBRACORE BORINGS

BORING	SAMPLE EL. MLLW	LAB CLASS	FIELD CLASS	WATER	LIQ. LIMIT	PLAS.	PI	LOI	SPEC GRAV	DRY WT.	SAT. WT. (CALC'D)	TOR TSF	PEN TSF	TSF	PHI	q TSF	SIEV PETR ANAL	ANAL
GP-21-87	-27.2/-27.7	SC	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-31.2/-31.7	SP	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-39.2/-39.7	SP-SM	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-22-87	-24.1/-24.6	SP	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-30.1/-30.6	CH	CH	51	-	-	-	-	-	-	-	-	0.12 0.55	-	-	-	-	-
	-35.8/-36.3	-	CH	-	-	-	-	-	-	-	-	-	0.11 0.1	-	-	-	-	-
	-38.1/-38.6	SP	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-44.6/-45.1	SP	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-23-87	-42.4/-42.9	SM	SM	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-32.4/-32.9	CH	CL	114	-	-	-	-	-	-	-	-	0.066 0.0	-	-	-	-	-
	-36.6/-37.1	SM	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-42.4/-42.9	SP	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-25-87	-21.7/-22.2	SP	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-28.7/-29.2	CH	CH	108	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-38.2/-38.7	SP-SM	SM	31	-	-	-	-	-	-	-	-	0.10 0.0	-	-	-	-	-
GP-26-87	-24.9/-25.4	SC	SM	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-30.4/-30.9	CH	CH	107	-	-	-	-	-	-	-	-	0.094 0.0	-	-	-	-	-
	-36.9/-37.4	SP	SM	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-27-87	-31.8/-32.3	CH	CH	100	-	-	-	-	-	-	-	-	0.11 0.1	-	-	-	-	-
	-41.8/-42.3	SP-SM	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-28-87	-22.9/-23.4	SP	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-33.9/-34.4	CH	CH	98	-	-	-	-	-	-	-	-	0.108 0.0	-	-	-	-	-
	-43.9/-44.4	SP-SM	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-29-87	-33.1/-36.1	CH, SP	ML	161	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-36.1/-39.1	CH	ML	85	-	-	-	6.9	2.61	51	95	-	-	-	-	-	-	-
	-40.1/-40.6	CH	ML	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-45.1/-45.6	SM	SM	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-30-87	-22.1/-22.6	SP	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-28.6/-29.1	-	SM	-	-	-	-	-	-	-	-	-	0.25 0.0	-	-	-	-	-
	-35.6/-36.1	CH	CH	100	-	-	-	-	-	-	-	-	0.09 0.1	-	-	-	-	-
GP-31-87	-24.3/-24.8	SP	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-35.8/-36.3	CH	CH	104	-	-	-	-	-	-	-	-	0.11 0.0	-	-	-	-	-

GULFPORT HARBOR AND CHANNEL IMPROVEMENTS, GENERAL DESIGN MEMORANDUM
LABORATORY TEST RESULTS FROM SAMPLES OBTAINED VIA 1987 VIBRACORE BORINGS

BORING	SAMPLE EL. MLLW	LAB CLASS	FIELD CLASS	WATER LIMIT	LIQ. LIMIT	PLAS. LIMIT	PI	LOI	GRAV	DRY WT.	SAT. WT. (CALC'D)	TOR TSF	PEN TSF	C TSF	PHI TSF	q TSF	SIEV ANAL	PETR ANAL
GP-32-87	-26.4/-26.9	SP-SH	SH	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-32.4/-32.9	CH	CH	93	77	-	53	-	-	-	-	0.074	0.0	-	-	-	-	-
	-38.9/-39.4	SH	SH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-33-87	-30.1/-30.6	CH	CL	101	86	24	62	-	2.64	-	91	0.074	0.0	-	-	-	MA	-
GP-36-87	-36.7/-37.2	CH	HL	115	-	-	-	7.4	2.68	-	89	-	-	-	-	-	-	-
	-44.2/-44.7	CH	CL	119	-	-	-	-	-	-	-	0.068	-	-	-	-	-	-
	-47.7/-48.2	SH	SH	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-37-87	-29.6/-32.6	CH	CL	178	117	28	89	-	2.65	29	81	-	-	-	-	-	-	-
	-32.6/-35.6	CH	CL	126	-	-	-	-	2.69	37.7	85	-	-	-	-	-	-	-
	-35.6/-38.6	CH	CH	111	116	32	84	-	-	41.7	87	-	-	-	-	-	-	-
	-38.6/-39.1	CH	CH	-	-	-	-	-	-	-	-	0.05	0.05	-	-	-	-	-
GP-38-87	-40.5/-41.0	CH	CH	127	117	30	87	-	-	-	-	0.09	0.2	-	-	-	-	-
GP-39-87	-33.6/-36.6	CH	CH	119	102	29	73	6.9	2.71	39.5	-	-	-	-	-	-	-	-
	-36.6/-39.6	CH	CH	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-43.6/-44.1	CH	CH	119	-	-	-	-	-	-	-	0.098	0.0	-	-	-	-	-
GP-40-87	-42.7/-43.2	CH	CH	104	-	-	-	-	-	-	-	0.07	0.0	-	-	-	-	-
GP-42-87	-44.6/-45.1	CH	CH	120	122	44	78	-	-	-	-	0.07	0.0	-	-	-	-	-
GP-45-87	-36.7/-39.7	CH	CH	150	116	38	78	-	2.65	33.2	84	-	-	-	-	-	MA/HY	-
	-46.7/-47.2	CH	CH	106	-	-	-	-	-	-	-	0.076	0.0	-	-	-	-	-
	55.7/56.2	CH	CH	89	-	-	-	-	-	-	-	0.11	0.05	-	-	-	-	-
GP-48-87	-34.4/-34.9	CH	MH	137	114	29	85	-	-	-	-	0.03	0.0	-	-	-	MA	-
	-37.9/-38.4	-	SH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-50-87	-36.5/-40.0	CH	CL	133	118	29	89	-	-	-	-	0.07	0.0	-	-	-	MA	-
GP-51-87	-29.9/-30.4	SP	SH	-	NP	NP	NP	-	-	-	-	-	-	-	-	-	MA	-
	-37.9/-38.4	SH	HL	30	NP	NP	NP	-	-	-	-	-	-	-	-	-	-	-

GULFPORT HARBOR AND CHANNEL IMPROVEMENTS, GENERAL DESIGN MEMORANDUM
LABORATORY TEST RESULTS FROM SAMPLES OBTAINED VIA 1987 VIBRACORE BORINGS

BORING	SAMPLE EL. HLLW	LAB CLASS	FIELD CLASS	WATER	LIQ. LIMIT	PLAS.	PI	LOI	SPEC GRAV	DRY WT.	SAT. WT. (CALC'D)	TOR TSP	PEN TSP	C TSP	PHI	q TSP	SIEV ANAL	PETR ANAL
GP-52-87	-21.6/-24.6	SP	SP	-	NP	NP	NP	-	-	-	-	-	-	-	-	-	MA	-
	-24.6/-27.6	SP	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-27.6/-30.6	SP	SP	33	NP	NP	NP	-	2.66	84.2	119	-	-	-	-	-	MA	-
	-30.6/-33.6	SP	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-33.6/-36.6	-	SM	34	-	-	-	-	-	90.3	-	-	-	-	-	-	MA	-
GP-53-87	-36.6/-37.1	SM	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-24.2/-24.7	SM	SM	27	-	-	-	-	-	-	-	-	-	-	-	-	MA/HY	-
	-31.2/-31.7	SC	CH	56	-	-	NP	-	-	-	-	0.11	0.25	-	-	-	-	-
	-14.1/-14.6	SP	SP	-	NP	NP	NP	-	-	-	-	-	-	-	-	-	MA	-
	-16.0/-16.5	SP	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-54-87	-28.5/-21.8	CH	CH	130	-	-	-	-	-	-	-	-	0.064	0.0	-	-	-	-
	-30.8/-31.3	SP	SP	-	NP	NP	NP	-	-	-	-	-	-	-	-	-	MA	-
	-20.1/-20.6	SP	SP	-	NP	NP	NP	-	-	-	-	-	-	-	-	-	MA	-
	-35.6/-36.1	SC-H	SM	21	-	-	-	-	-	-	-	-	-	-	-	-	MA	-
	-40.6/-41.1	SC	CH	26	35	16	19	-	-	-	-	0.2	0.4	-	-	-	MA	-
GP-57-87	-16.3/-16.8	CH	ML	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-19.1/-19.6	SH	SH	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-27.1/-27.6	CH	CH	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-33.1/-33.6	SC-H	SM	30	-	-	-	-	-	-	-	0.114	0.25	-	-	-	-	-
	-40.1/-40.6	SP	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-58-87	-19.9/-20.4	SP	SP	-	NP	NP	NP	-	-	-	-	-	-	-	-	-	MA	-
	-35.9/-36.4	CH	CH	70	-	-	-	-	-	-	-	0.25	0.18	-	-	-	-	-
	-42.9/-43.4	SP-SM	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-15.0/-18.0	SC-H	SM	72	58	16	42	-	2.61	58.9	98	-	-	-	-	-	MA	-
	-21.0/-21.5	SM	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-59-87	-26.0/-26.5	CH	CH	61	-	-	-	-	-	-	-	0.138	0.1	-	-	-	-	-
	-30.0/-33.0	CL	CH	31	36	16	20	-	2.67	89.7	121	-	-	-	-	-	MA/HY	-
	-33.0/-36.0	-	SP	23	-	-	-	-	-	96.1	-	-	-	-	-	-	MA	-
	-36.0/-36.5	SP-SM	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-36.0/-36.5	SP-SM	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

GULFPORT HARBOR AND CHANNEL IMPROVEMENTS, GENERAL DESIGN MEMORANDUM
LABORATORY TEST RESULTS FROM SAMPLES OBTAINED VIA 1987 VIBRACORE BORINGS

BORING	SAMPLE EL. MLLW	LAB CLASS	FIELD CLASS	WATER	L.IQ. LIMIT	PLAS.	PI	LOI	GRAV	DRY WT.	SAT. WT. (CALC'D)	TOR TSF	PEN TSF	C TSF	PHI	q TSF	SIEV PETR ANAL	ANAL
GP-60-87	-17.3/-17.8	CH	ML	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-19.3/-19.8	SC	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-26.8/-27.3	CH	CH	62	68	18	42	-	-	-	-	-	-	-	-	-	-	-
	-38.8/-31.3	-	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	MA	-
	-36.8/-37.3	CH	CH	49	55	16	39	-	-	-	-	-	-	-	-	-	-	-
GP-61-87	-48.3/-48.8	SM	SM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-14.6/-15.1	CH	ML	162	183	24	79	7.7	-	-	-	-	-	-	-	-	-	-
	-18.6/-19.1	SC	CL	38	44	19	25	-	-	-	-	-	-	-	-	-	-	-
	-26.8/-27.3	CL	CH	33	47	15	32	-	-	-	-	-	-	-	-	-	-	-
	-29.4/-29.9	CL	ML	25	28	19	9	-	-	-	-	-	-	-	-	-	-	-
GP-62-87	-36.3/-36.8	-	SP	-	-	-	-	-	-	-	-	-	-	-	-	-	MA	-
	42.8/-43.3	CH	CH	23	-	-	-	-	-	-	0.15	0.25	-	-	-	-	-	-
	-47.3/-47.8	SM	ML	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP-63-87	-45.3/-45.8	CH	CH	117	123	48	83	-	-	-	0.2	0.1	-	-	-	-	MA/HY	-

GULFPORT SHIP CHANNEL
SUMMARY OF LAB. TEST RESULTS ON SOIL SAMPLES

Hole No.	Dept		Moisture Content	Percent Passing Sieve Number				Hydrometer		Atterbergs		Soil Class.		
	From	To		10	20	40	60	100	200	% Silt & Clay	LL		PI	
SS-1	0.0	5.0	223					100	99	62	37	148	115	OH
	5.0	10.0	177			100	99	98	96	56.	40	216	166	OH
SS-2	10.0	11.5	25		100	99	94	74	30	12	18	33	17	SC
	0.0	4.0	188		100	99	97	94	93	56	37	200	151	OH
	4.0	7.8	212					100	99	50	49	153	107	OH
	7.8	9.3	16		100	91	59	32	22	7	15	29		SC
SS-3	9.3	10.8	22		100	93	62	37	27	6	21	22	11	SC
	0.0	8.0	210				100	99	99	52	47	222	175	OH
	8.0	12.0	267				100	99	99	42	57	150	109	OH
	12.0	14.0	68			100	95	85	79	43	36	77	58	OH
SS-4	14.0	15.1	83			100	95	87	79	32	47	106	77	CH
	0.0	6.0	205						100	44	56	190	136	OH
	6.0	15.0	220						99	56	43	279	223	OH
	15.0	16.6	36		100	99	95	80	46	34	12	25	6	SM-SC
SS-5	0.0	7.0	198					100	99	42	57	202	150	OH
	7.0	15.2	216						100	55	45	205	140	OH
SS-6	0.0	6.0	236						100	66	34	337	283	OH
	6.0	13.7	207						100	63	37	370	331	OH
SS-7	0.0	6.0	277						100	52	48	279	233	OH
	6.0	13.7	237						100	57	43	220	149	OH
SS-8	0.0	7.0	71					80	64	34	30	136	92	OH
	7.0	12.0	189			100	99	99	98	55	43	344	277	OH
SS-9	12.0	13.5	28		100	98	90	79	62	31	31	57	36	CH
	0.0	8.0	208						100	51	49	145	92	OH
	8.0	14.0	274						100	50	50	-	-	OH
	14.0	16.0	92			100	99	99	98	70	28	105	74	CH
SS-10	0.0	11.0	220						100	48	52	147	107	OH
	11.0	13.5	79					100	98	69	29	71	37	CH
SS-11	0.0	5.0	201						99	46	53	193	147	OH
	5.0	10.5	203				100	99	98	40	50	140	86	OH
SS-12	10.5	12.0	25		100	99	96	80	14	9	5	-	-	SM
	0.0	7.2	161			100	99	98	94	51	43	178	139	OH
	7.2	8.7	23			100	92	65	15	11	4	-	-	SM

GULFPORT SHIP CHANNEL
SUMMARY OF LAB. TEST RESULTS ON SOIL SAMPLES

Hole No.	Dept		Moisture Content	10	20	Percent Passing Sieve Number			Hydrometer		Atterbergs		Soil Class.
	From	To				40	60	100	% Silt	% Clay	LL	PI	
SS-13	0.0	6.5	200				100	99	56	40	136	90	OH
	6.5	8.0	31		100	96	90	76	13	8	-	-	SC
SS-14	0.0	9.5	183					100	54	45	139	96	OH
	9.5	11.0	22		100	98	90	72	22	17	27	13	SC
SS-15	0.0	7.5	174				100	97	53	39	130	98	OH
	7.5	9.0	22		100	98	97	74	21	13	24	8	SC
	9.0	10.5	20			100	97	69	17	7	-	-	SC
SS-16	0.0	4.9	206					100	55	44	130	95	OH
	4.9	6.4	22			100	99	93	42	18	30	13	CL
SS-17	0.0	6.5	143		99	99	98	91	34	37	73	53	CH
	6.5	8.0	38	100		100	97	78	19	12	-	-	SC
SS-18	0.0	5.0	206				100	98	62	36	139	89	OH
	5.0	6.5	26		100	99	85	33	7	5	-	-	SM
SS-19	0.0	3.8	194					100	59	40	227	188	OH
	3.8	5.3	28		100	99	92	71	29	10	27	12	SC
SS-20	0.0	4.3	175				100	96	45	43	129	74	OH
	4.3	5.8	39			100	96	81	39	13	41	22	CL
	5.8	7.3	46	100	99	99	96	85	39	22	49	30	CL
SS-21	0.0	6.5	222				100	99	53	44	196	149	OH
	6.5	8.0	214				100	99	44	51	163	110	OH
1	0.0	21.5	92			100	99	95	37	55	101	66	CH
	21.5	22.5	92			100	98	94	32	59	72	36	MH
2	0.0	25.3	60			100	99	98	37	56	110	79	CH
3	0.0	16.5	47		100	98	91	67	14	25	51	30	SC-H
4	0.0	17.5	142					100	37	62	-	-	-
5	0.0	15.5	39		100	97	91	74	21	24	59	41	SC-H
6	0.0	2.5	42	100	98	97	92	66	14	6	-	-	SM

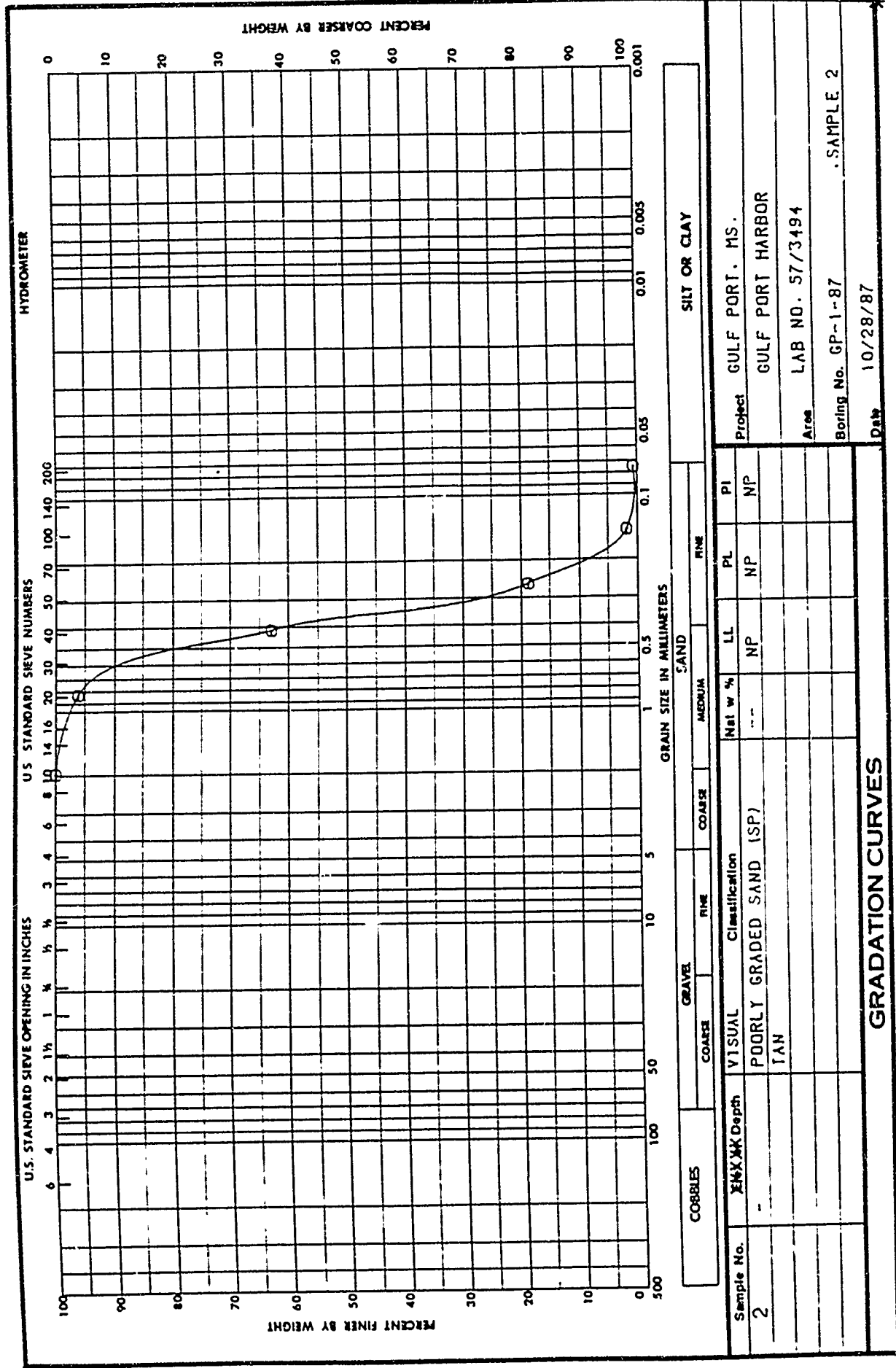
GULFPORT SHIP CHANNEL
SUMMARY OF LAB. TEST RESULTS ON SOIL SAMPLES

Hole No.	Depth		Moisture Content	Percent Passing Sieve Number				Hydrometer		Atterbergs		Soil Class.
	From	To		10	20	40	60	100	200	% silt & clay	LL	
P-1	0.0	12.5	71	100	98	89	63	46	40	47	27	SC
	12.5	22.6	20	100	94	80	55	16	8	-	-	SM
	22.6	24.6	20	100	93	78	55	13	6	19	2	SM
P-2	0.0	17.0	22	100	94	80	50	25	10	23	5	SM-SC
P-3	0.0	19.4	23	100	99	95	77	36	14	17	3	SM
P-4	0.0	25.5	38	100	99	97	89	72	24	57	36	CH
	25.5	32.0	24	100	100	97	87	40	15	34	19	SC
	32.0	41.0	28	89	84	63	31	14	4	-	-	SM
P-5	0.0	15.1	111	100	98	95	86	76	66	54	36	CH
P-6	0.0	14.1	39	100	96	87	60	32	10	27	9	SC
P-7	0.0	20.8	94	100	99	100	99	97	58	106	67	CH
	20.8	27.0	61	100	99	97	90	78	48	93	78	CH
P-8	0.0	20.4	93	100	98	93	83	96	36	119	80	CH
	20.4	27.2	52	100	98	93	83	77	21	44	33	CL
P-9	0.0	14.3	30	100	97	85	48	23	7	32	17	SC
P-10	0.0	29.0	63	100	99	97	91	78	32	95	78	CH
	0.0	25.0	56	100	96	87	69	56	6	74	58	CH

Note: Most or all of the OH classifications in this summary would actually classify as CH when plotted on a plasticity chart, and records do not show that loss-on-ignition tests were performed. The classifier apparently observed a large amount of organic material in the samples, visually making the distinction between OH and CH classifications.

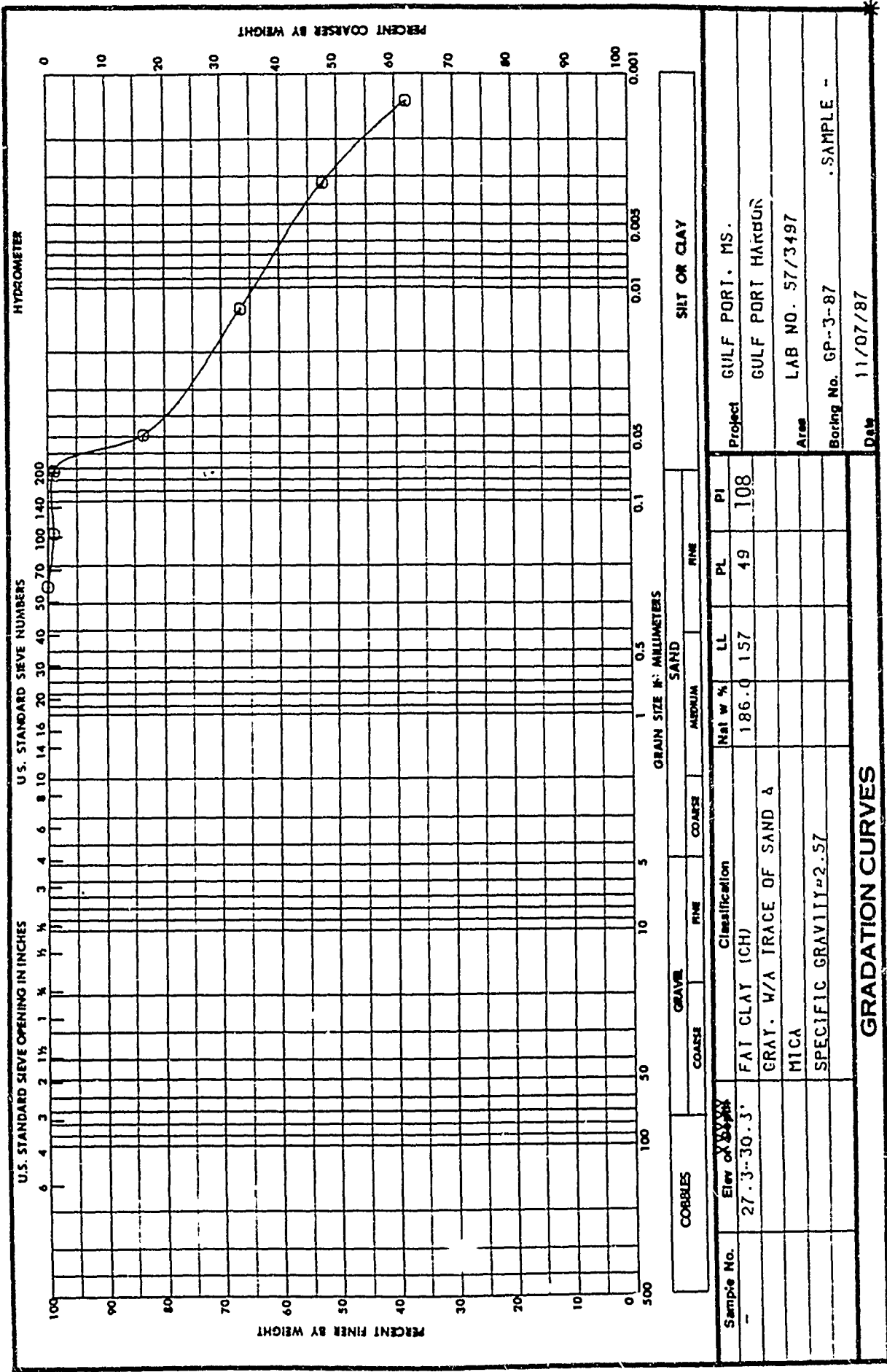
W.O. No 5327
Req. No. 42-87-F&M

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060



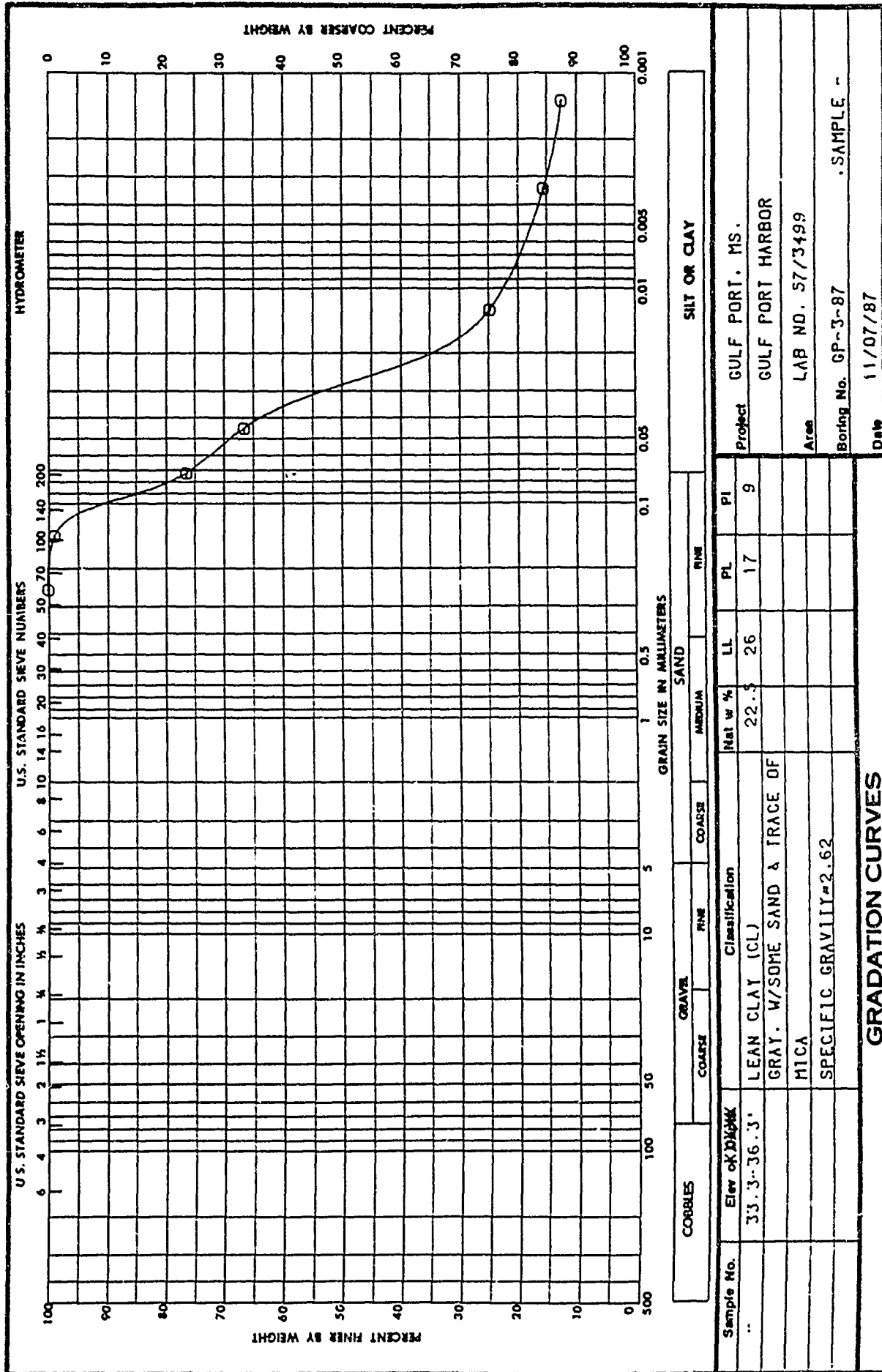
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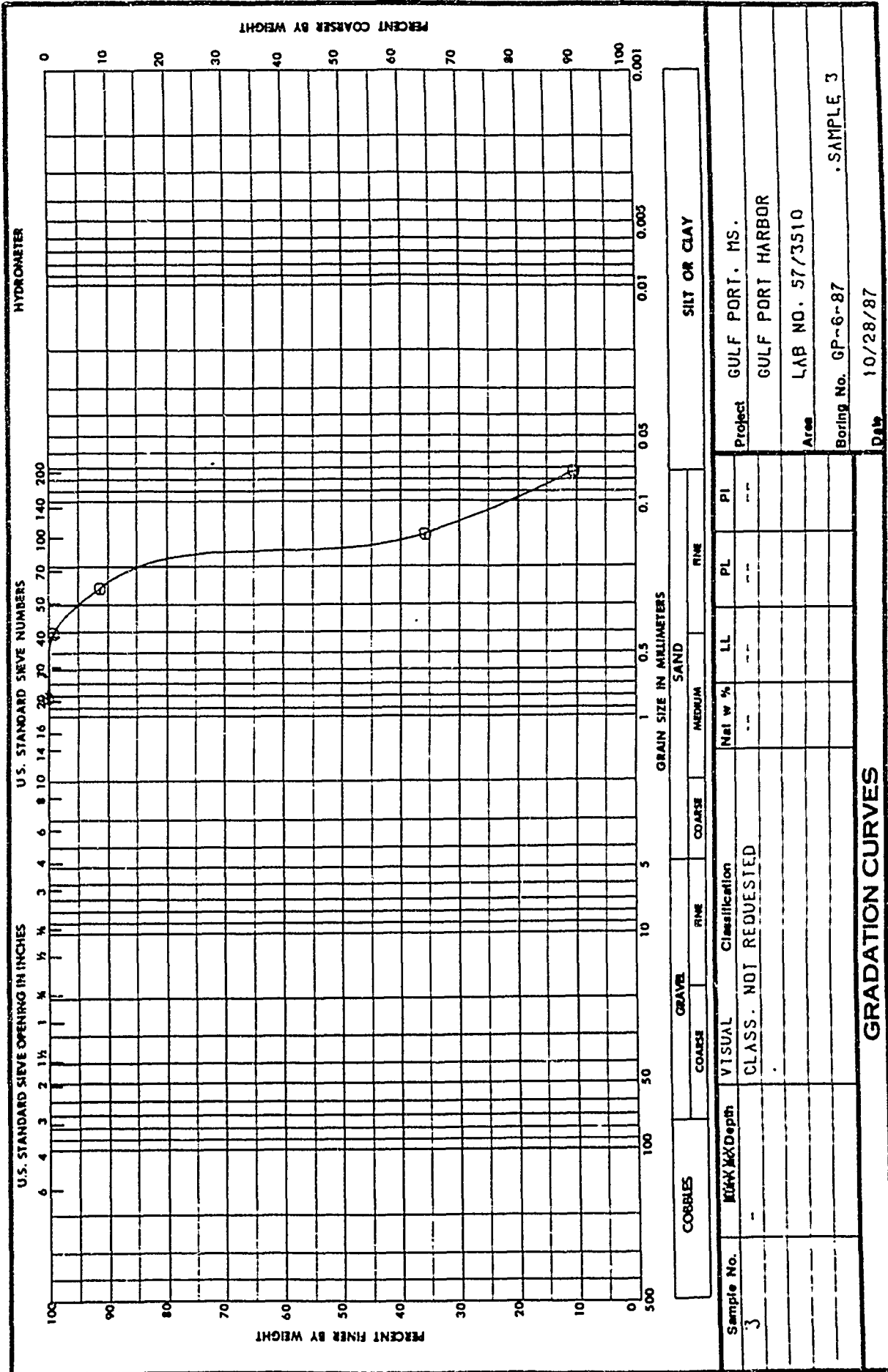


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1AY 63

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA 30060

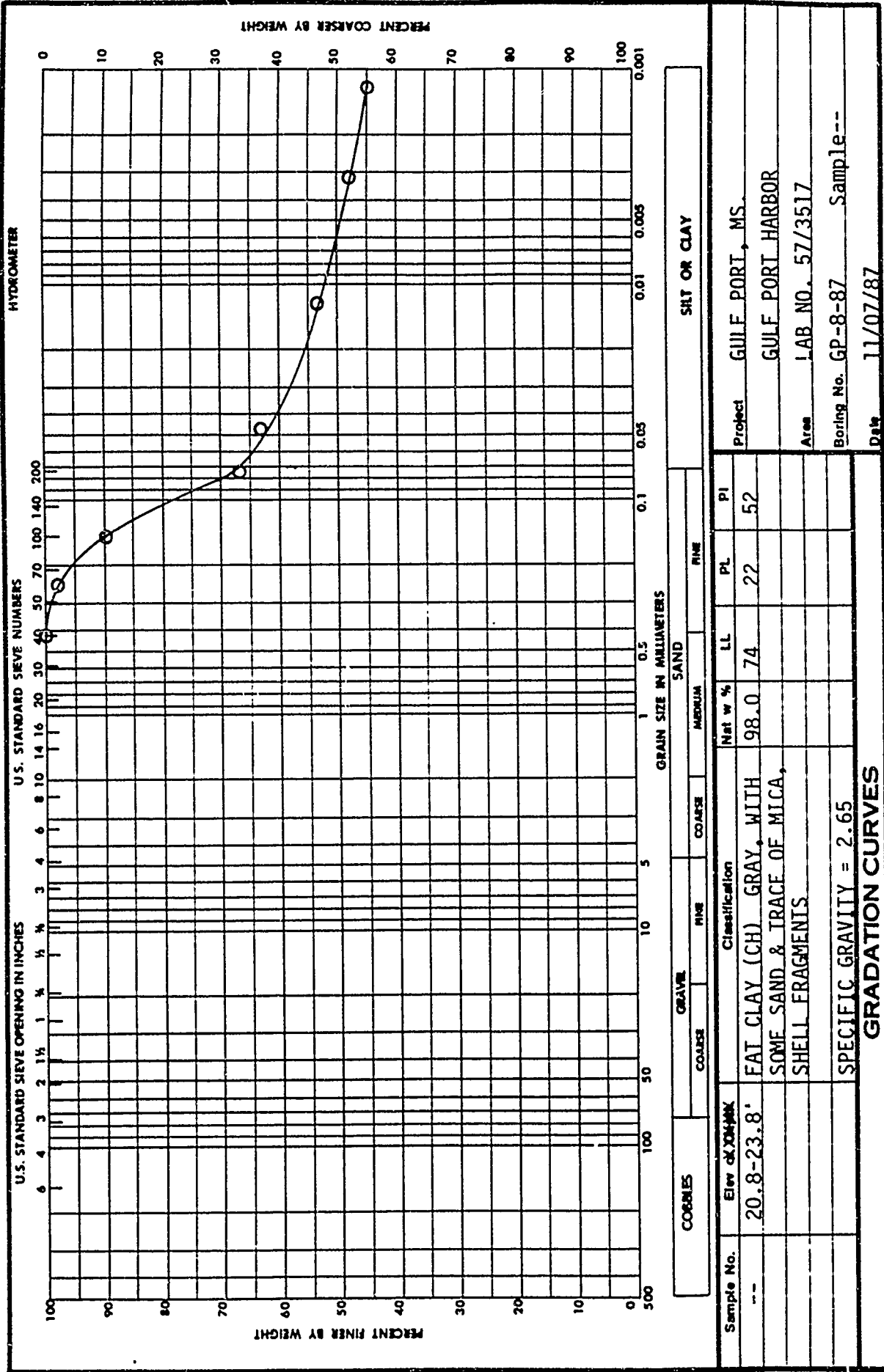
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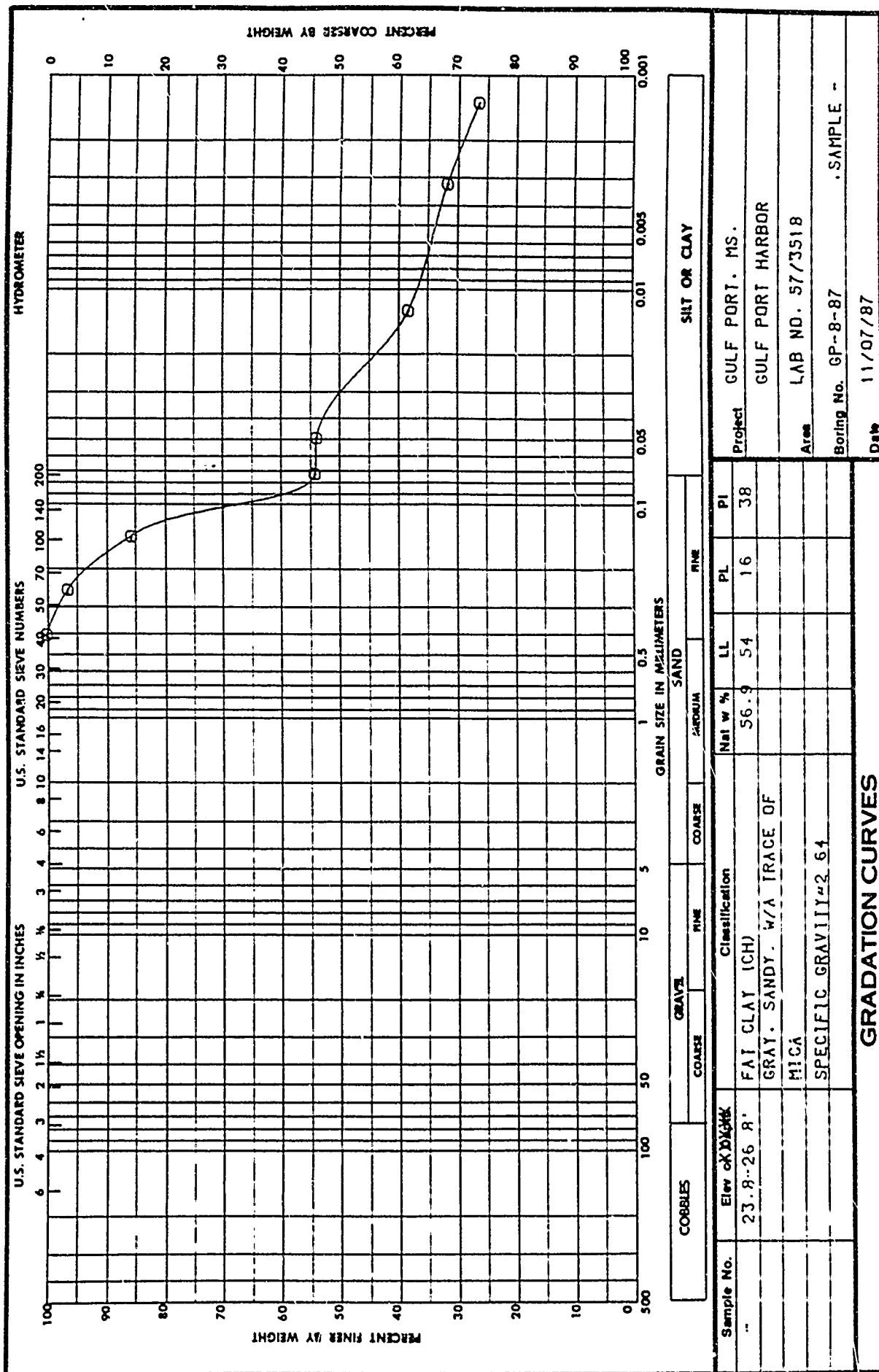


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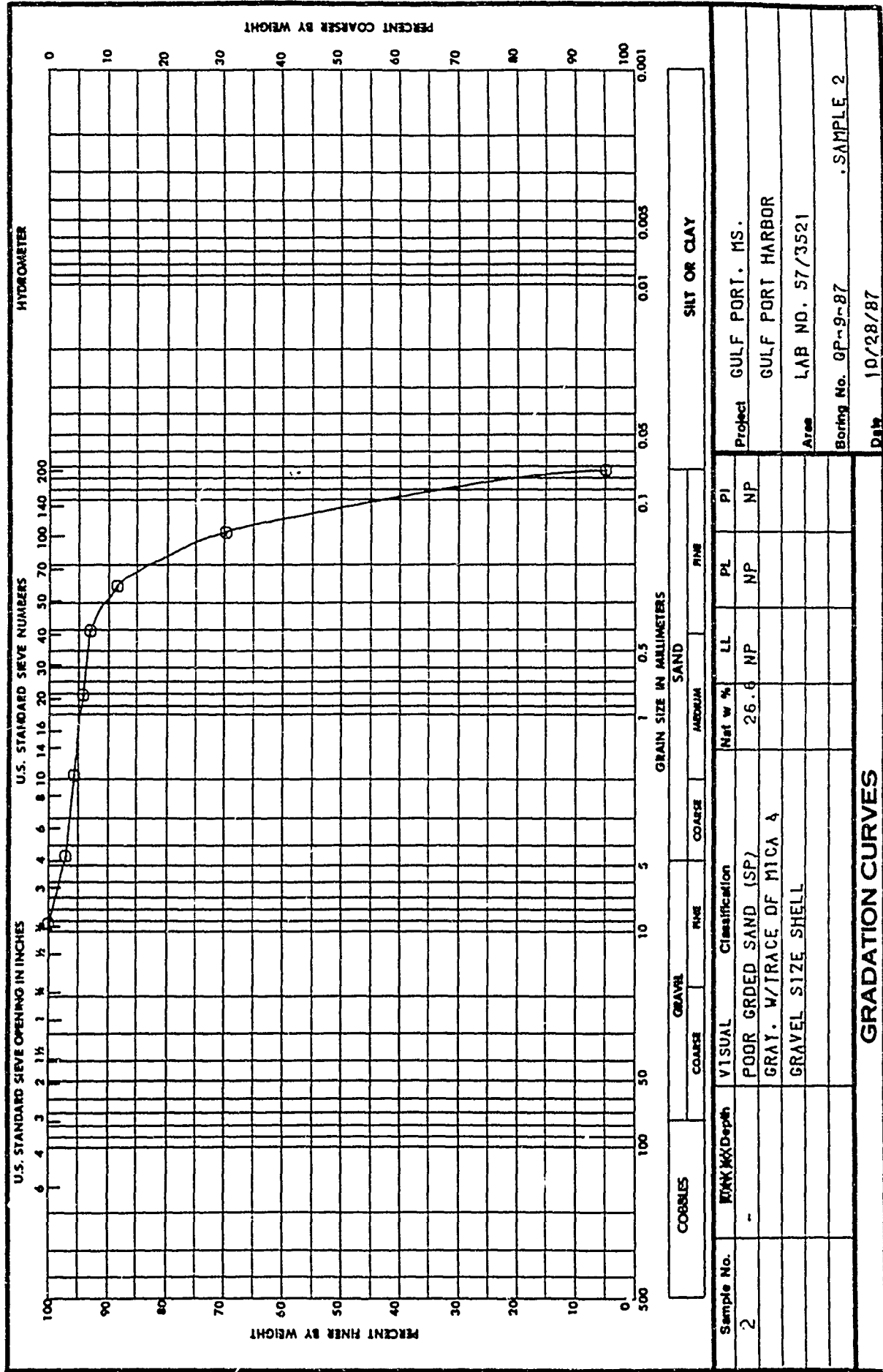


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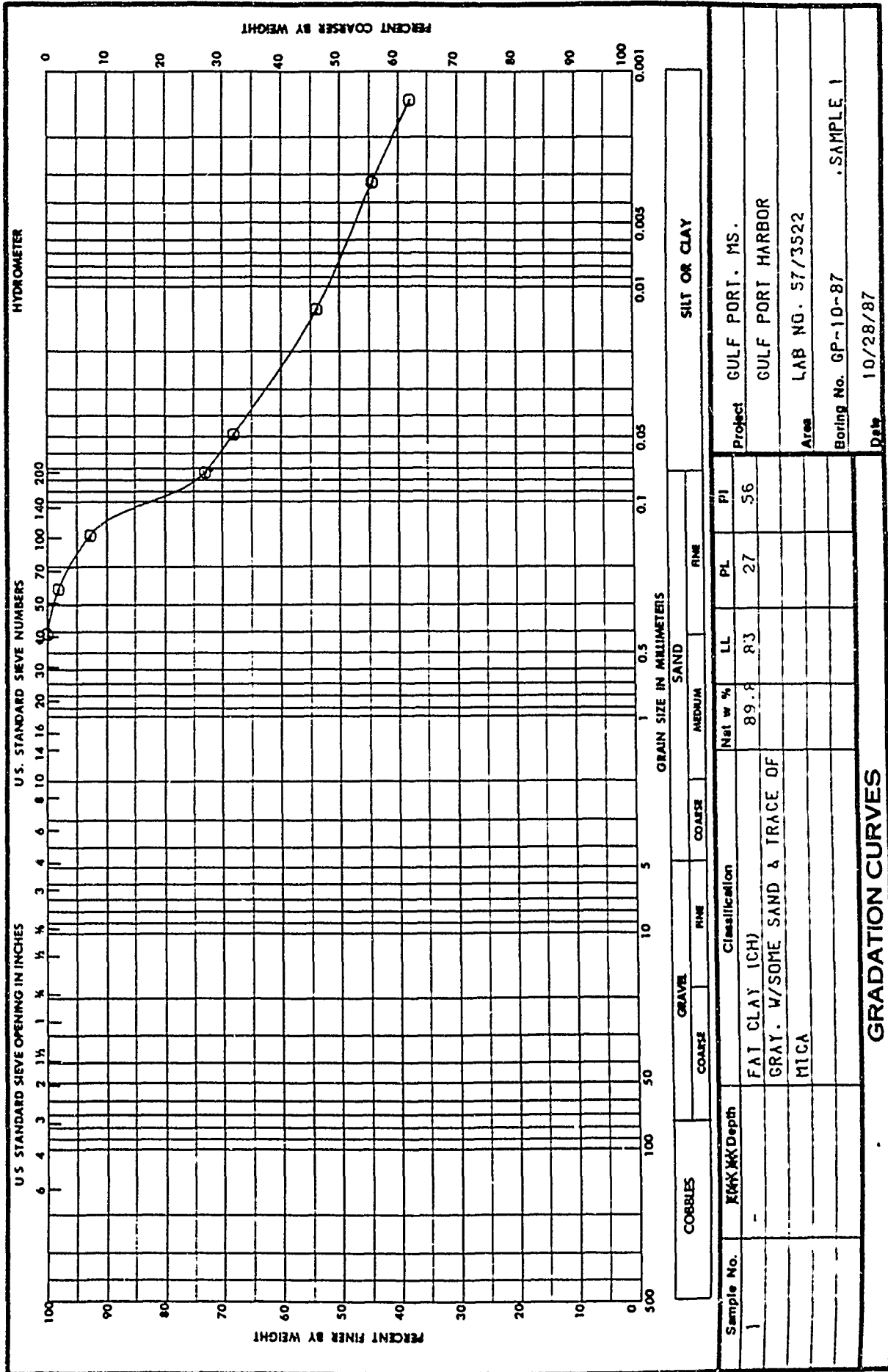


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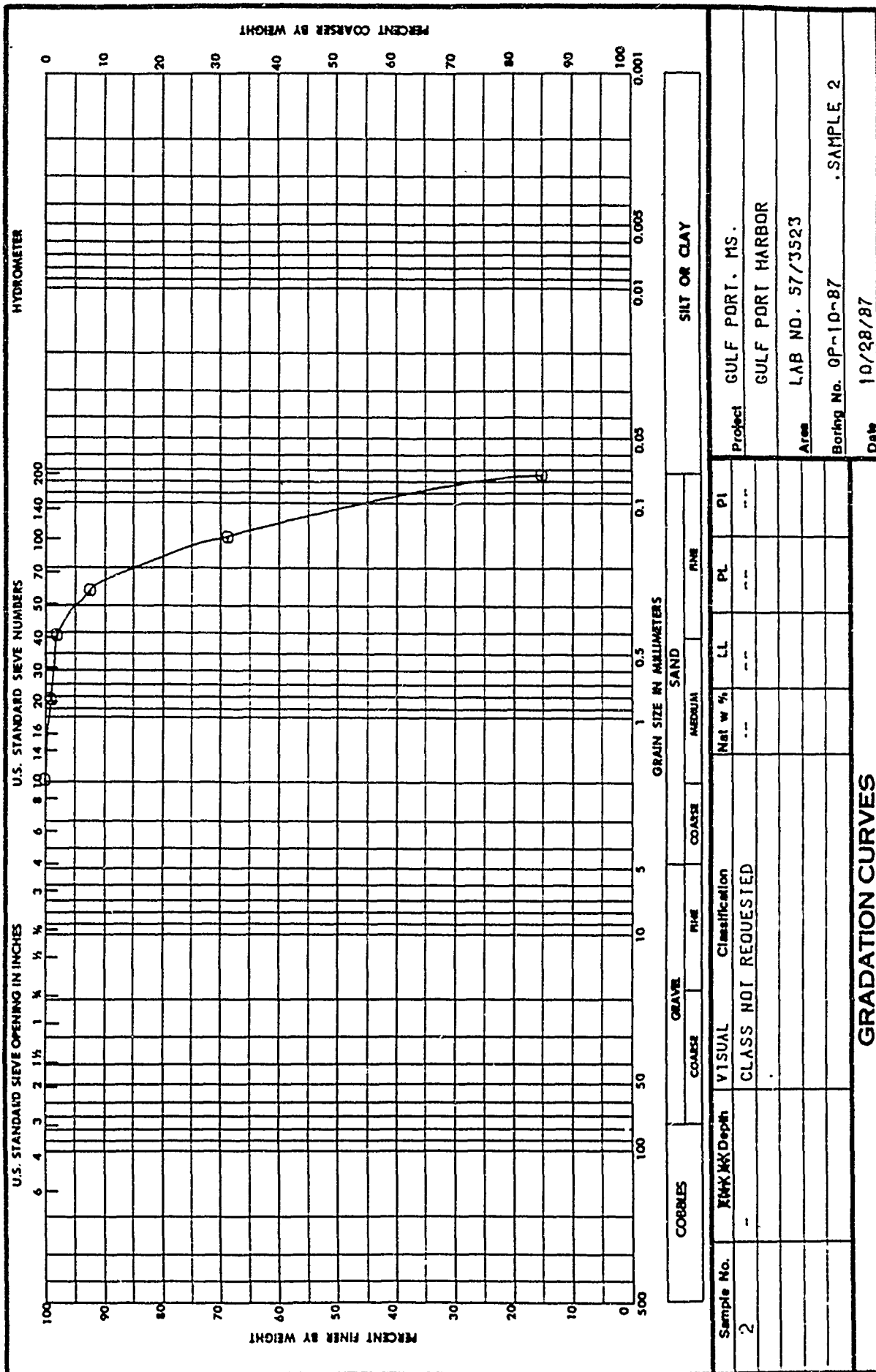
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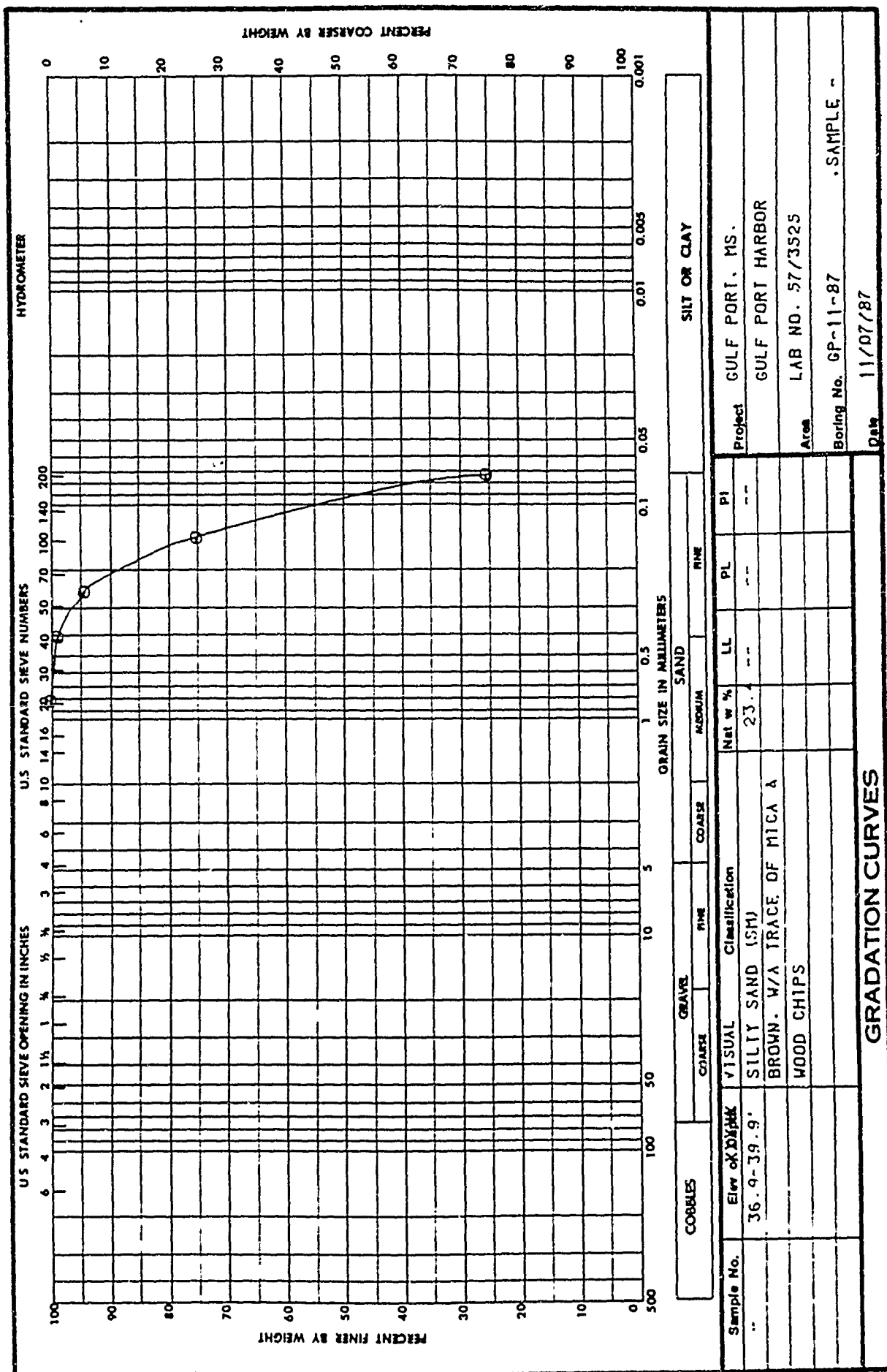
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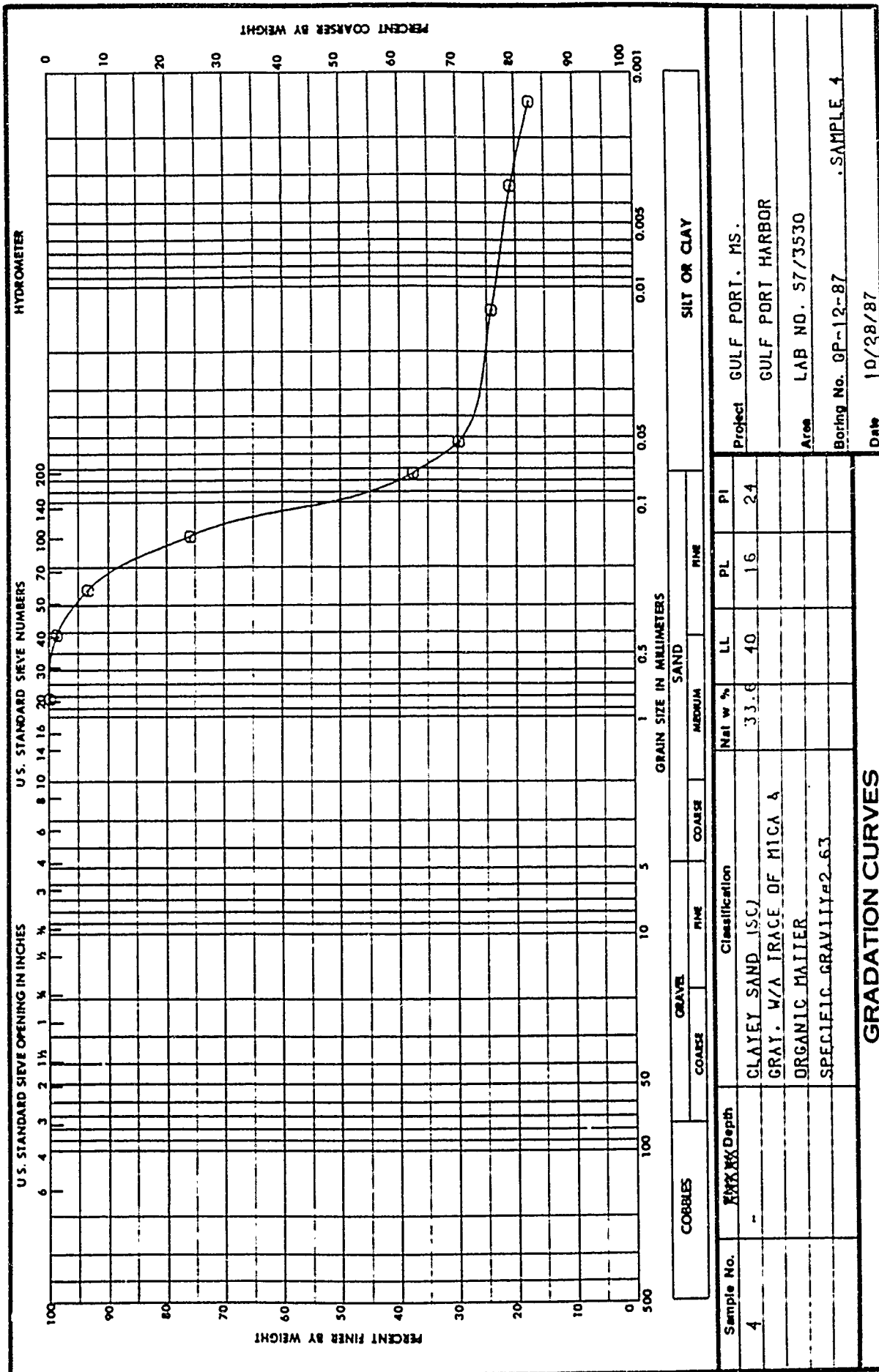


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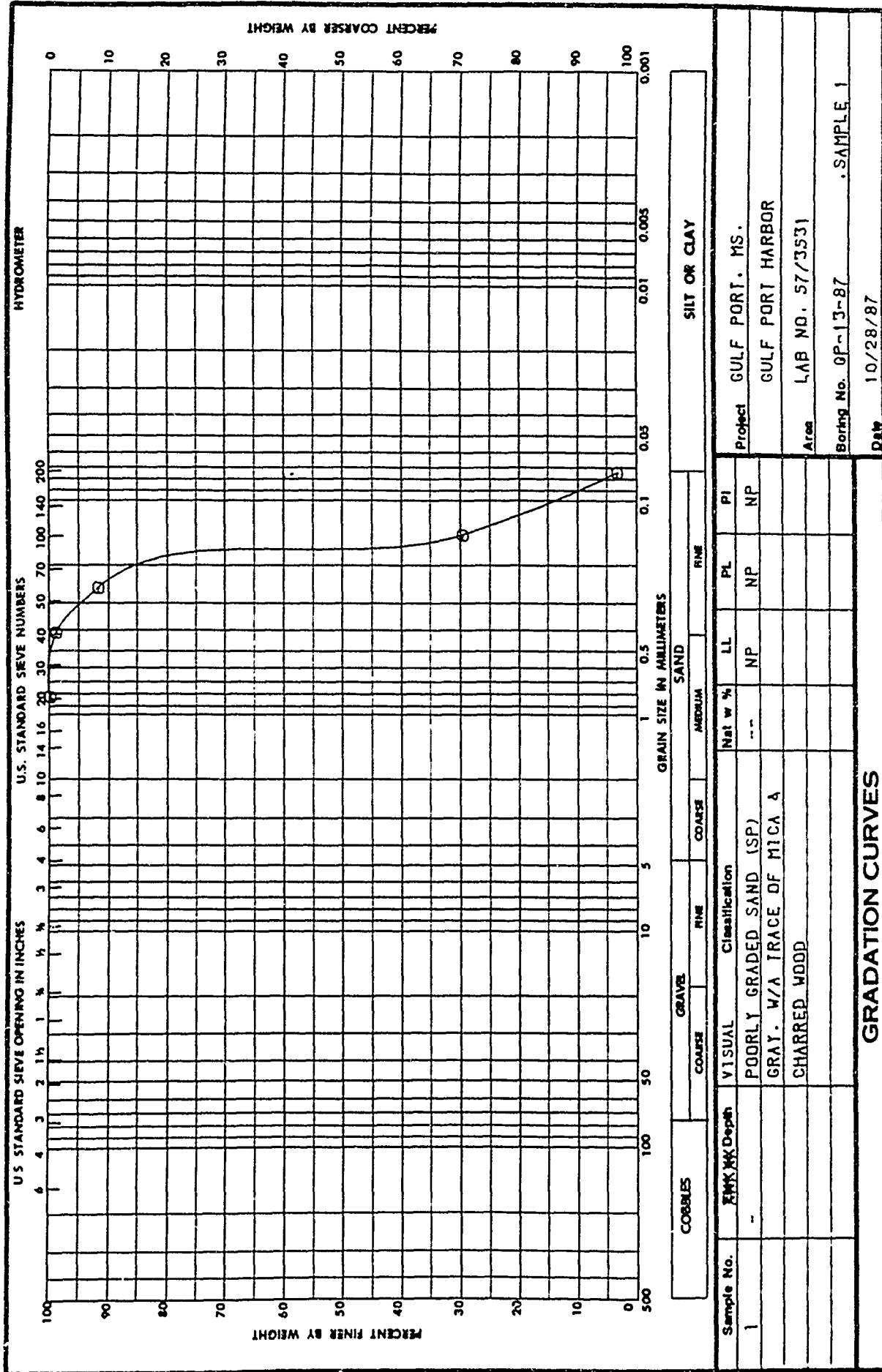
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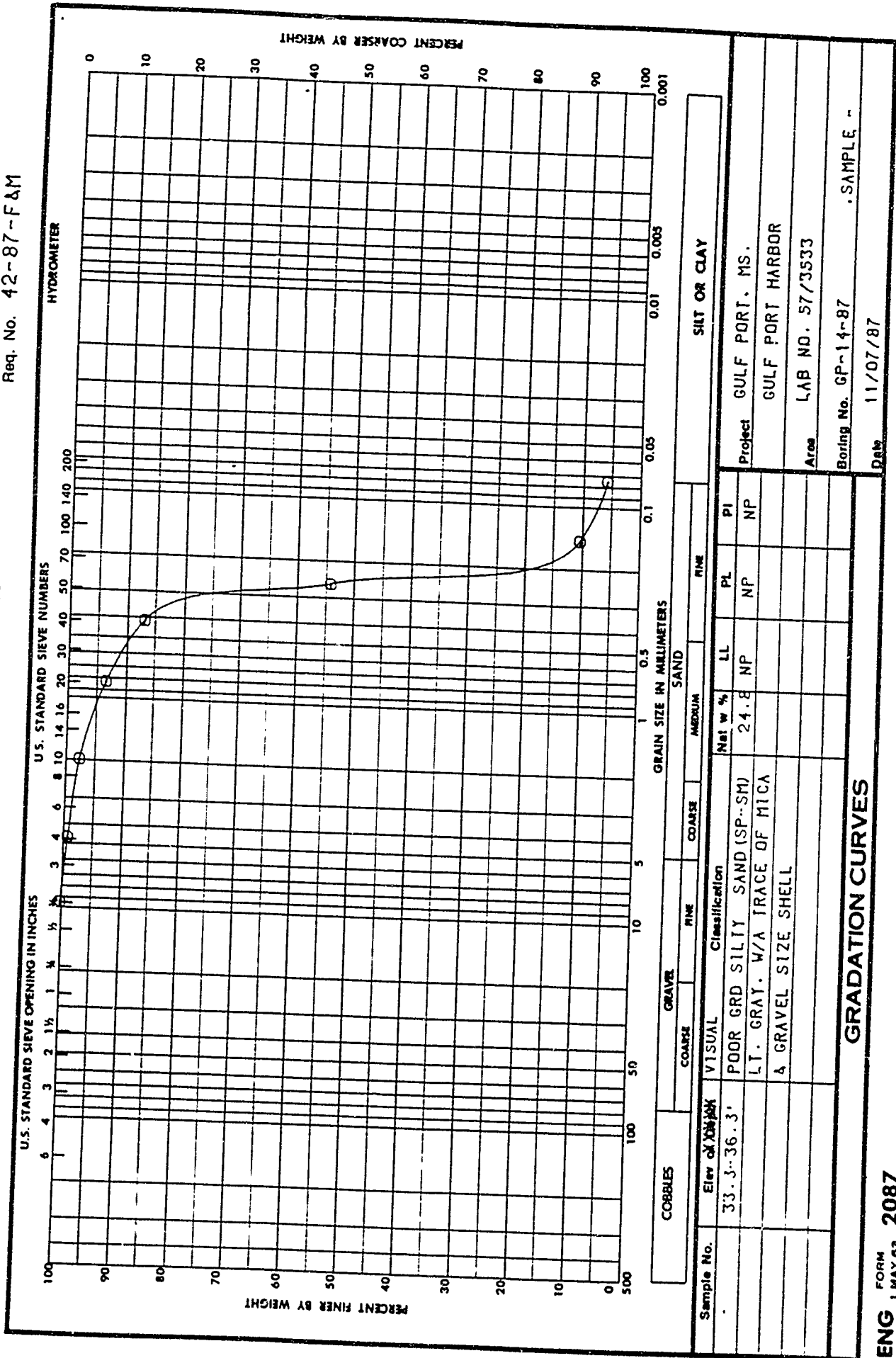


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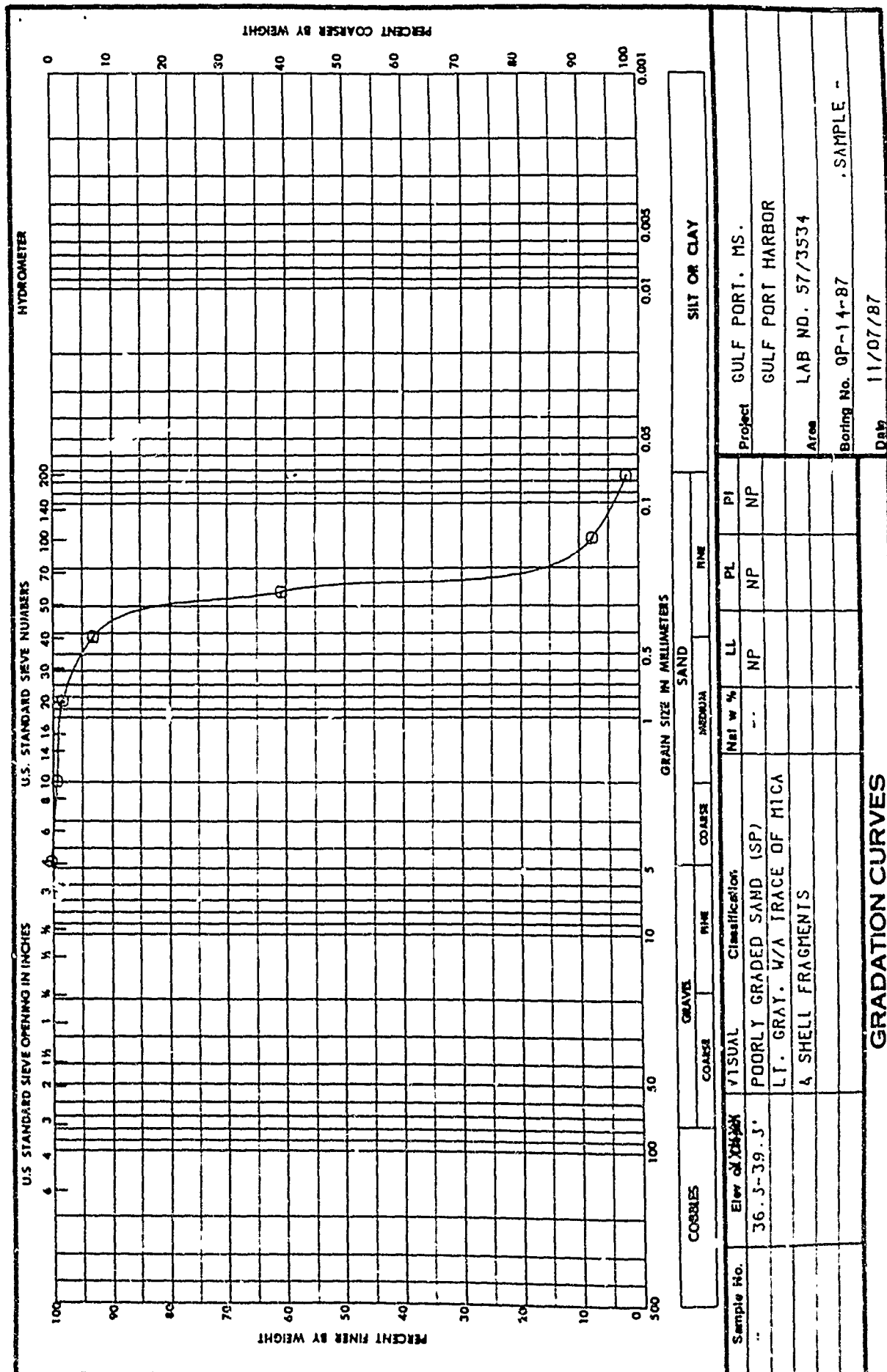
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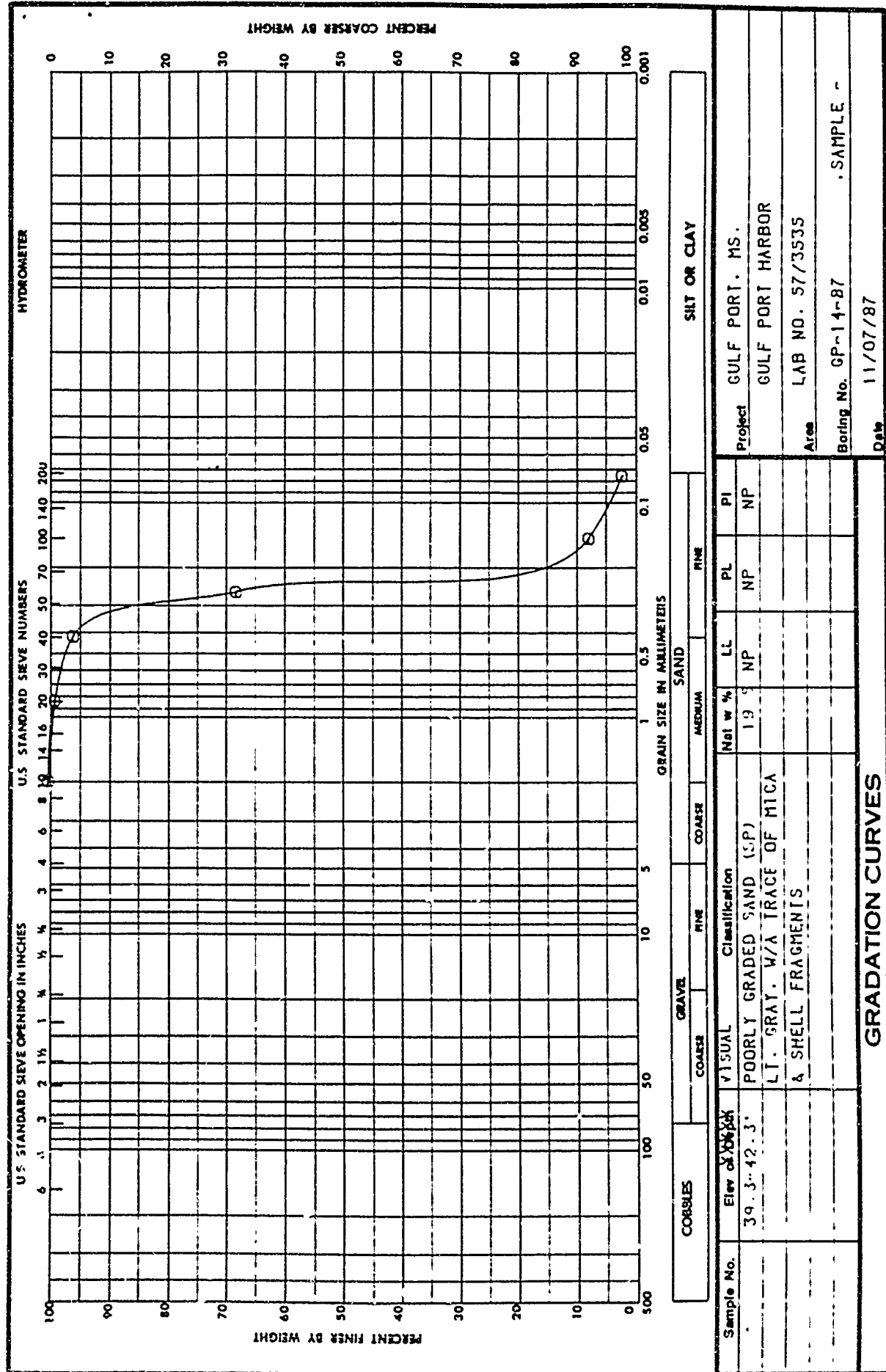
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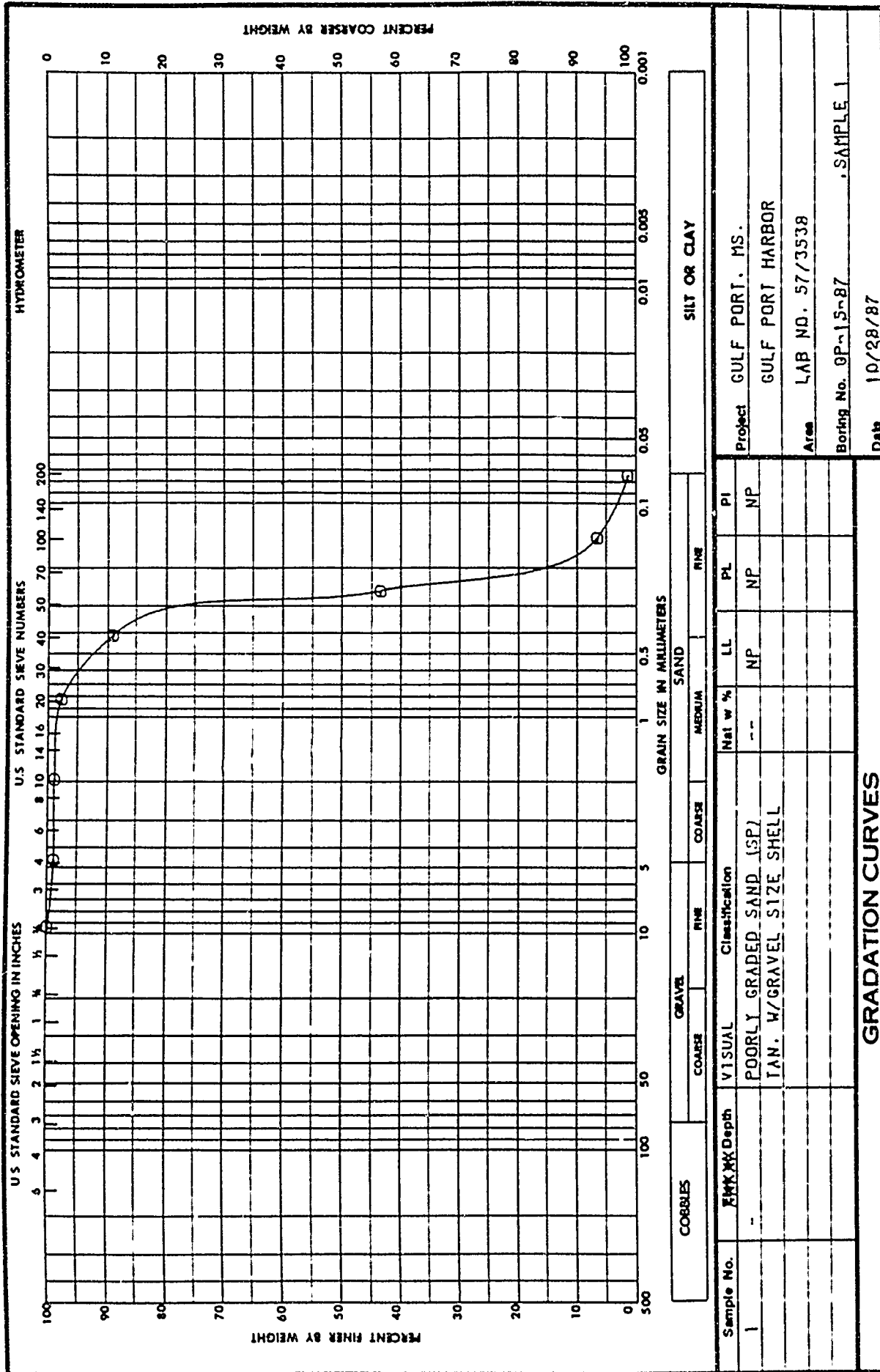
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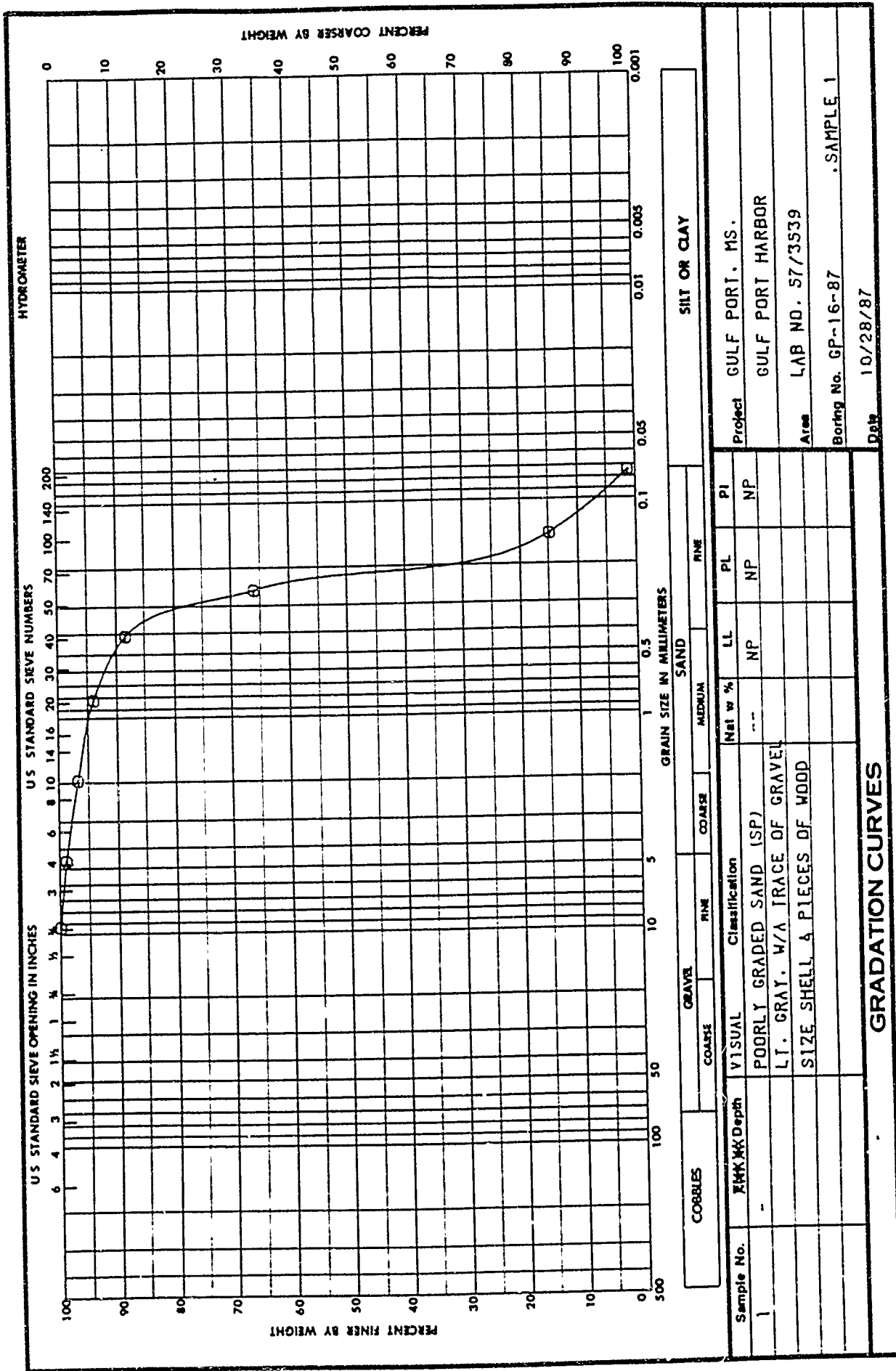


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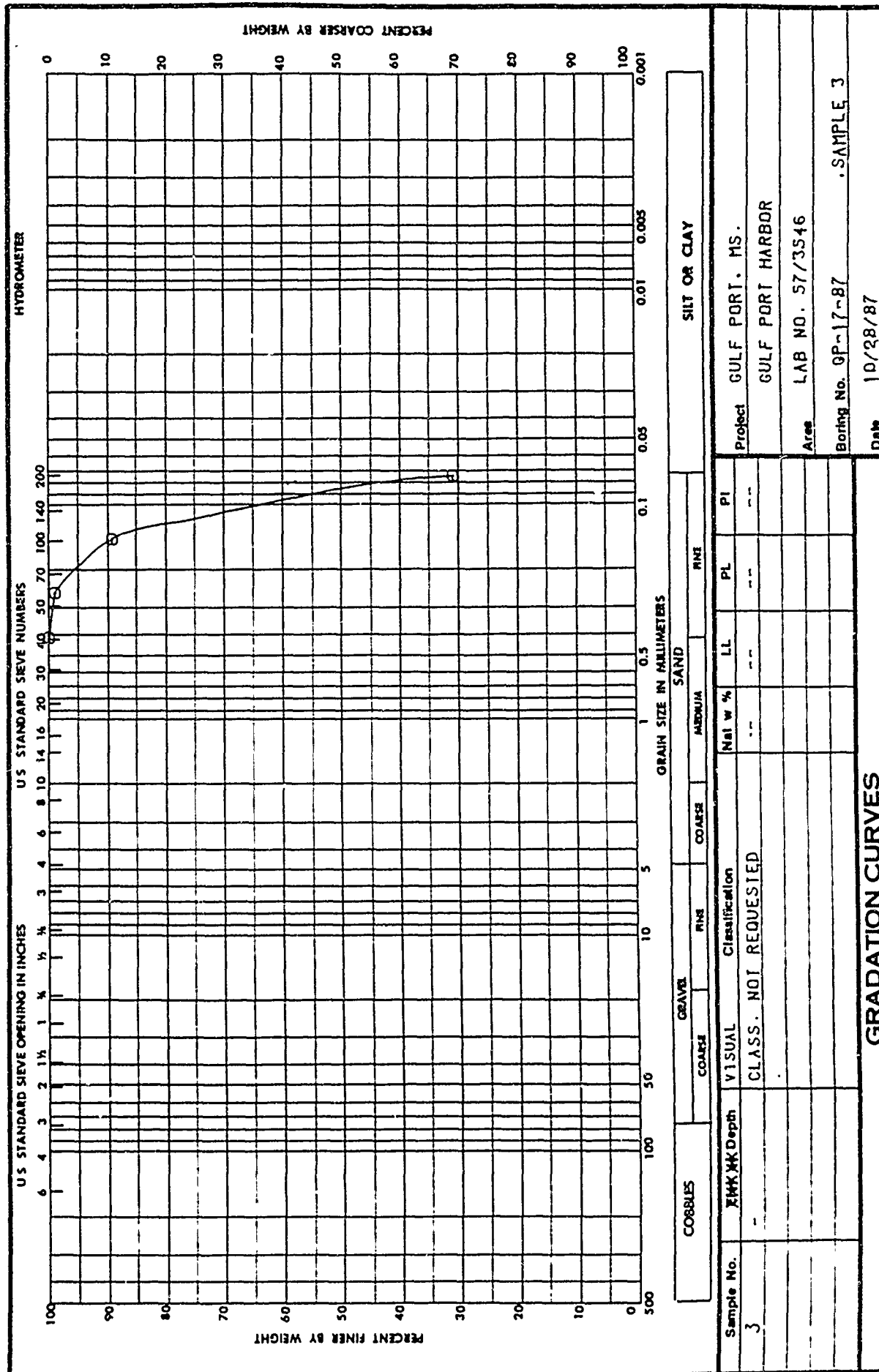


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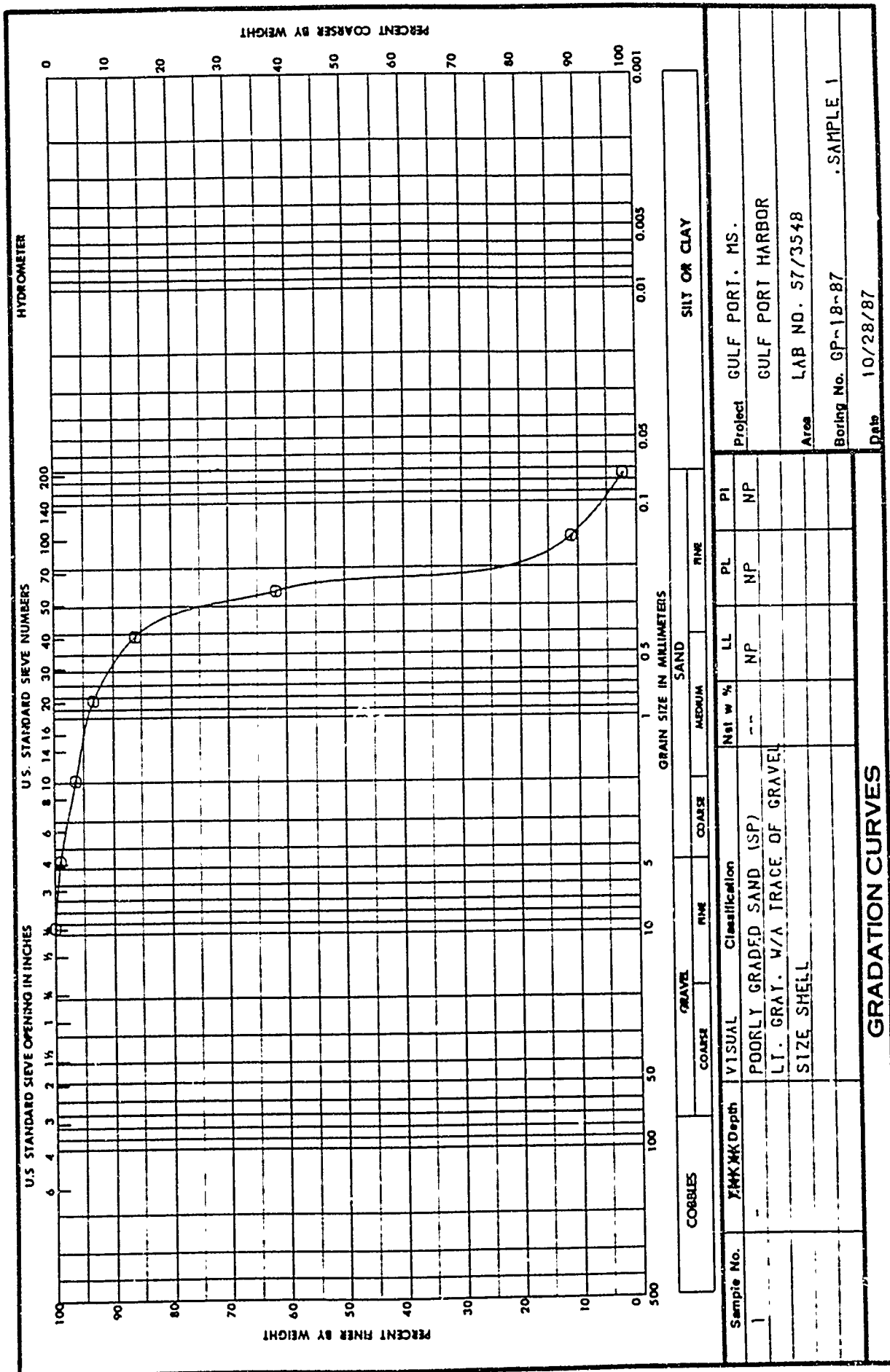
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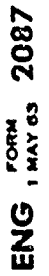
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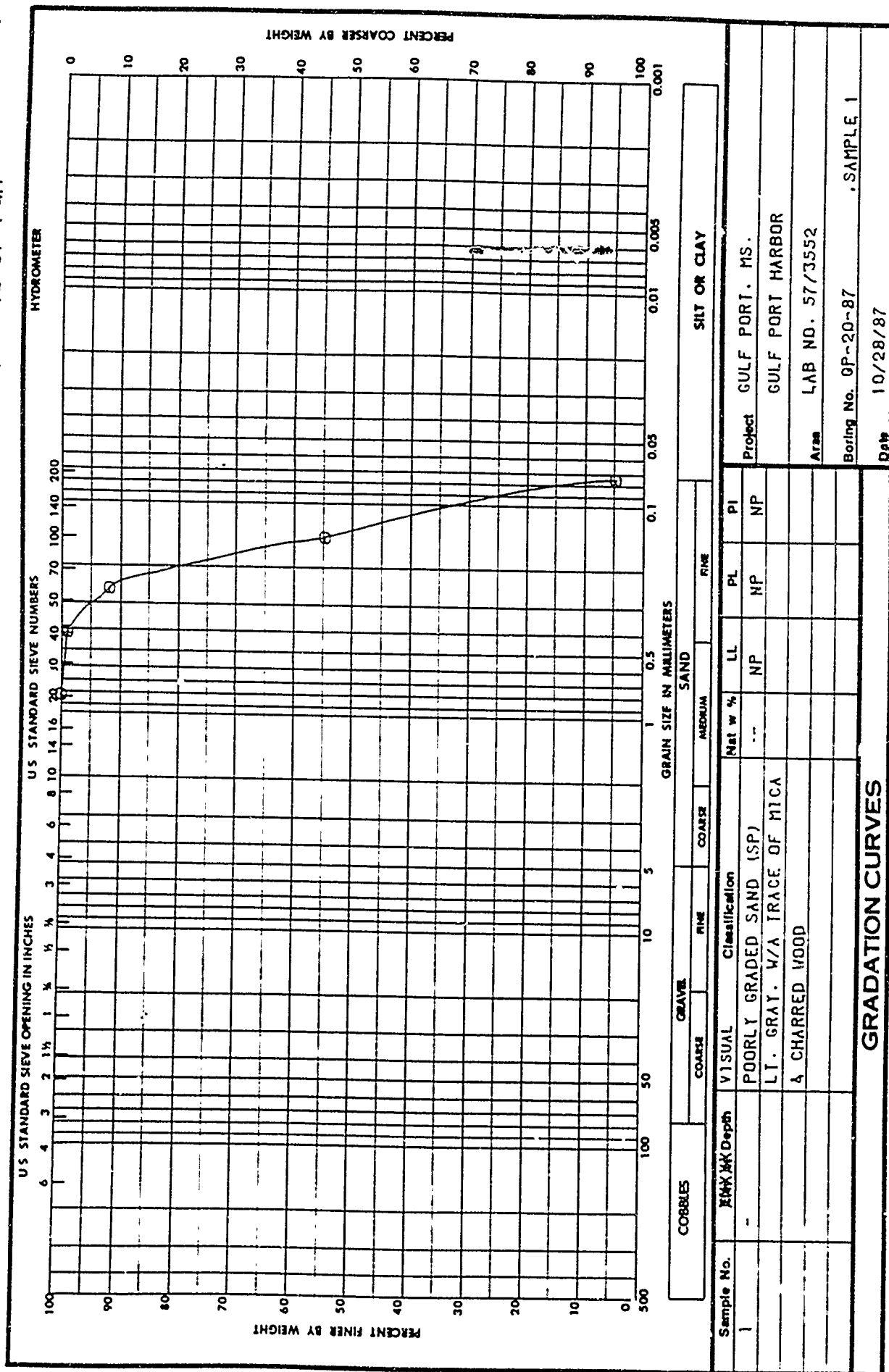


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CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

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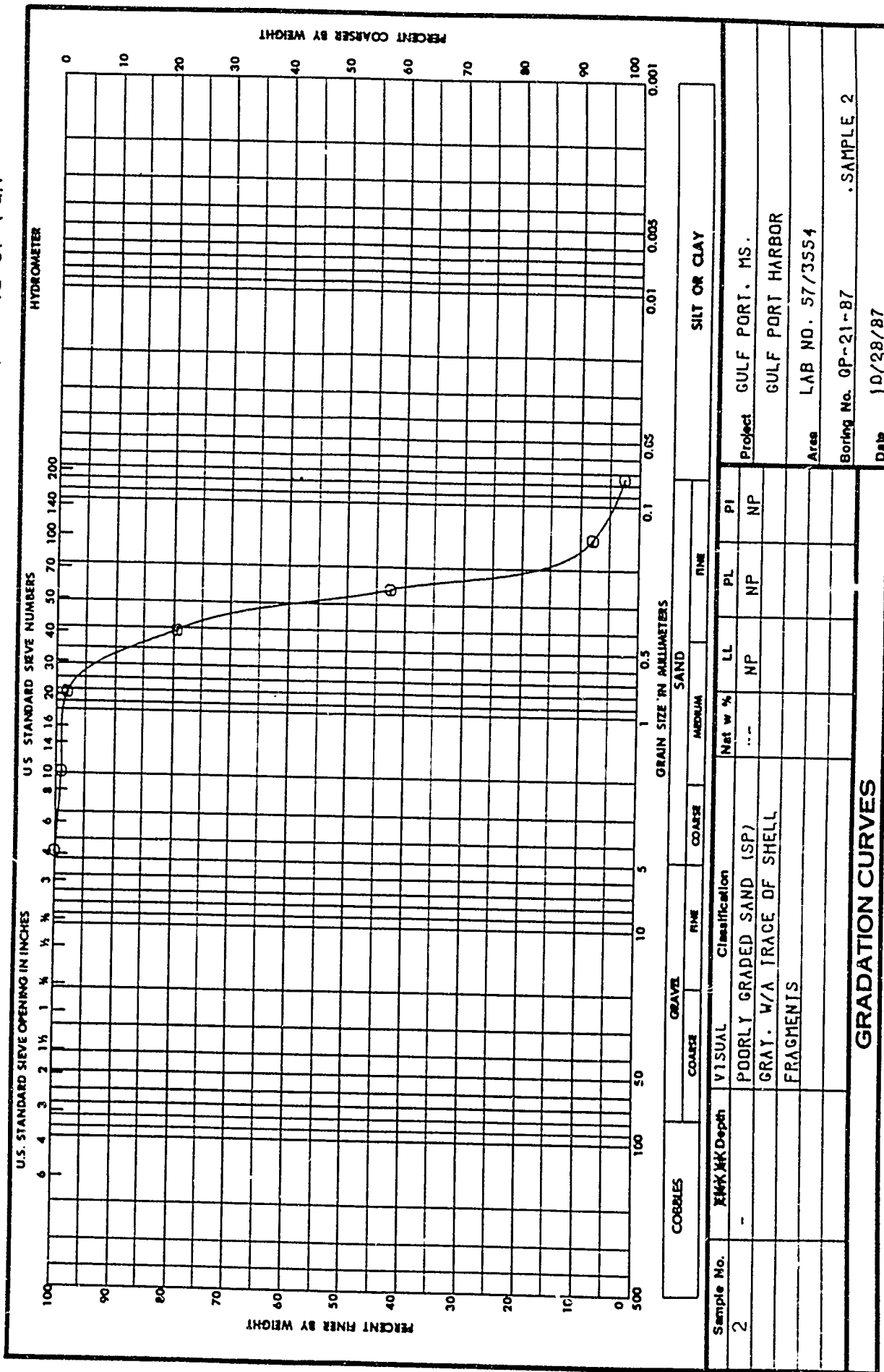


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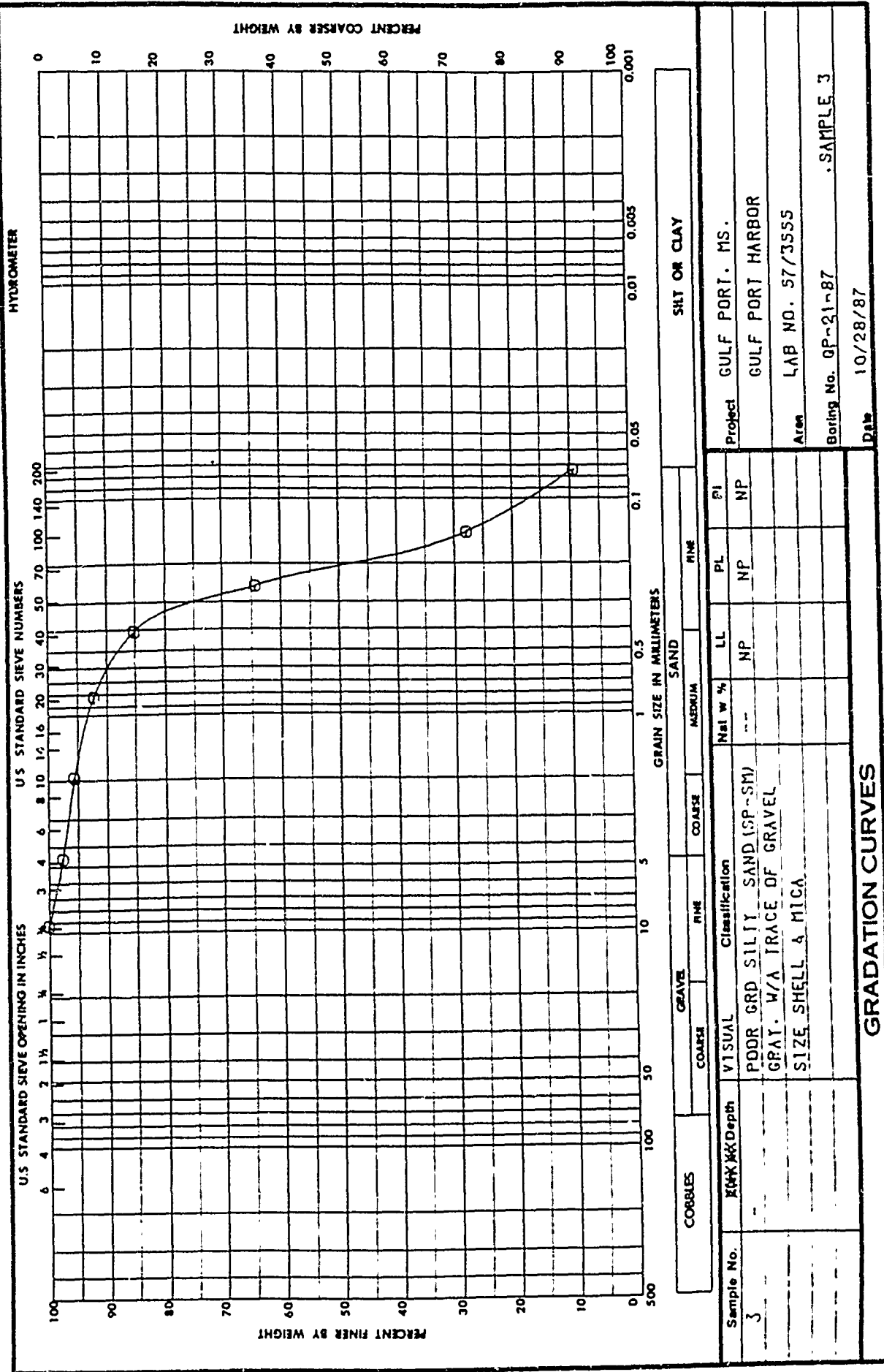
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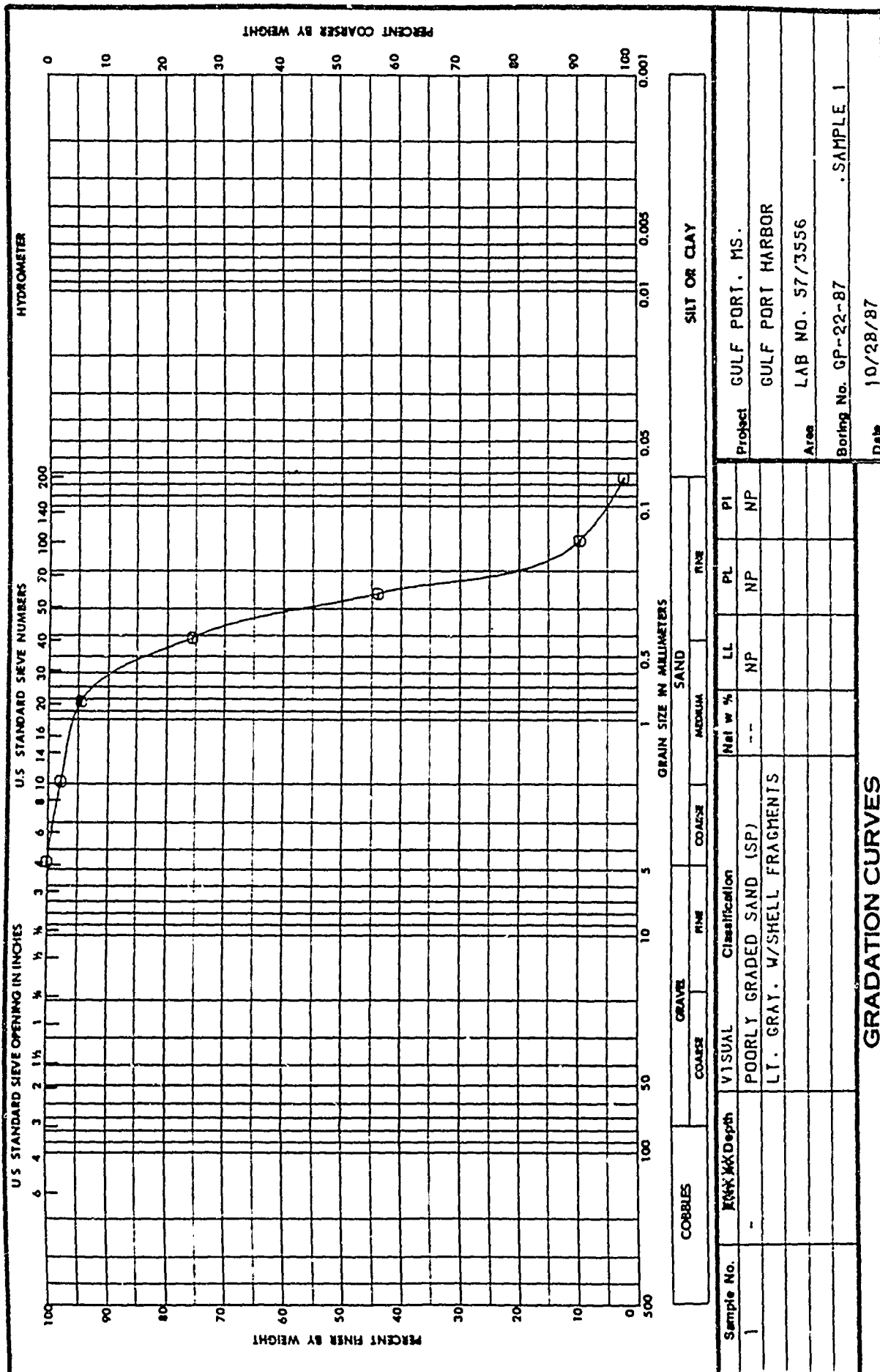
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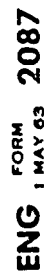


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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
 CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

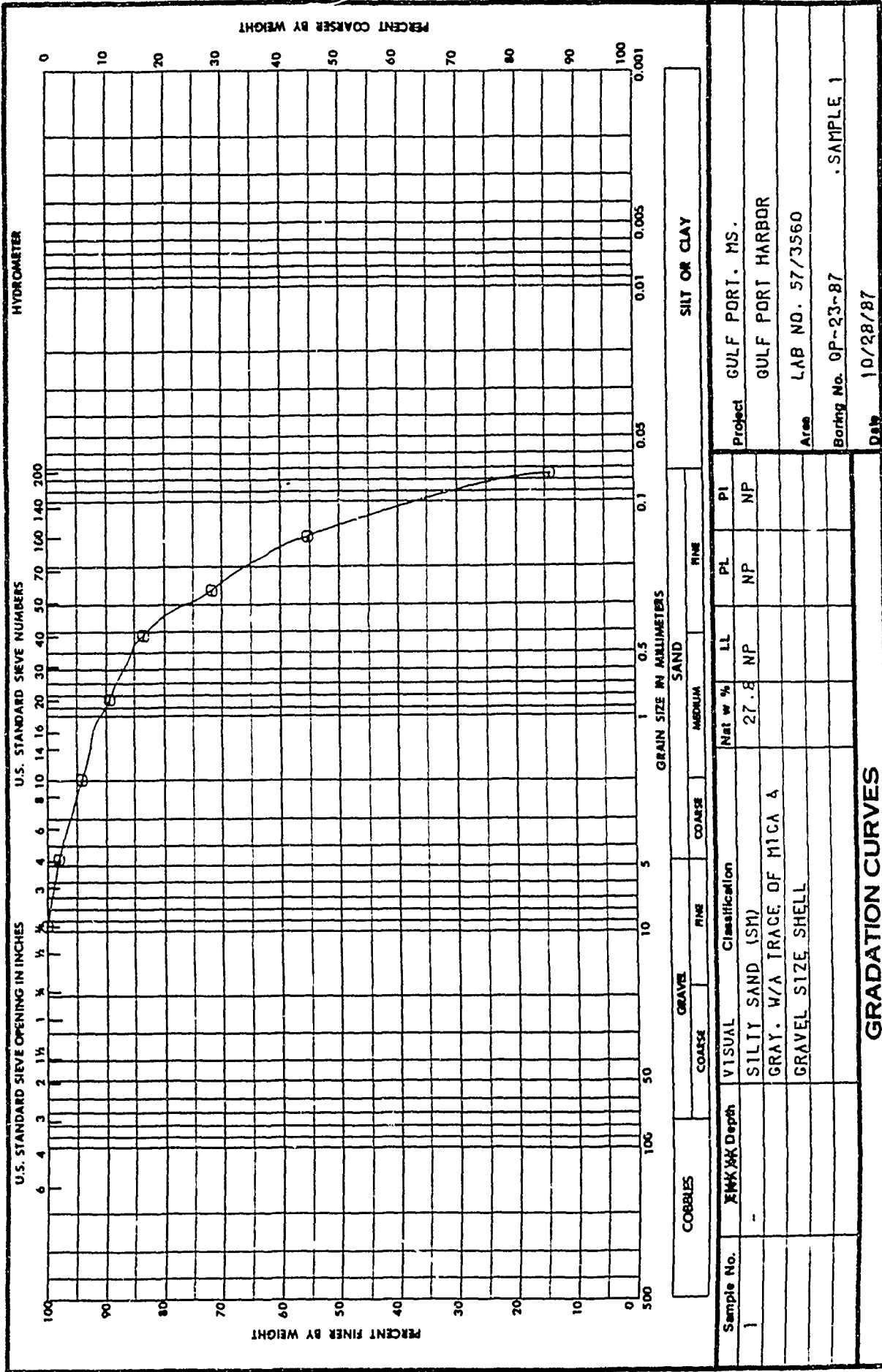


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CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

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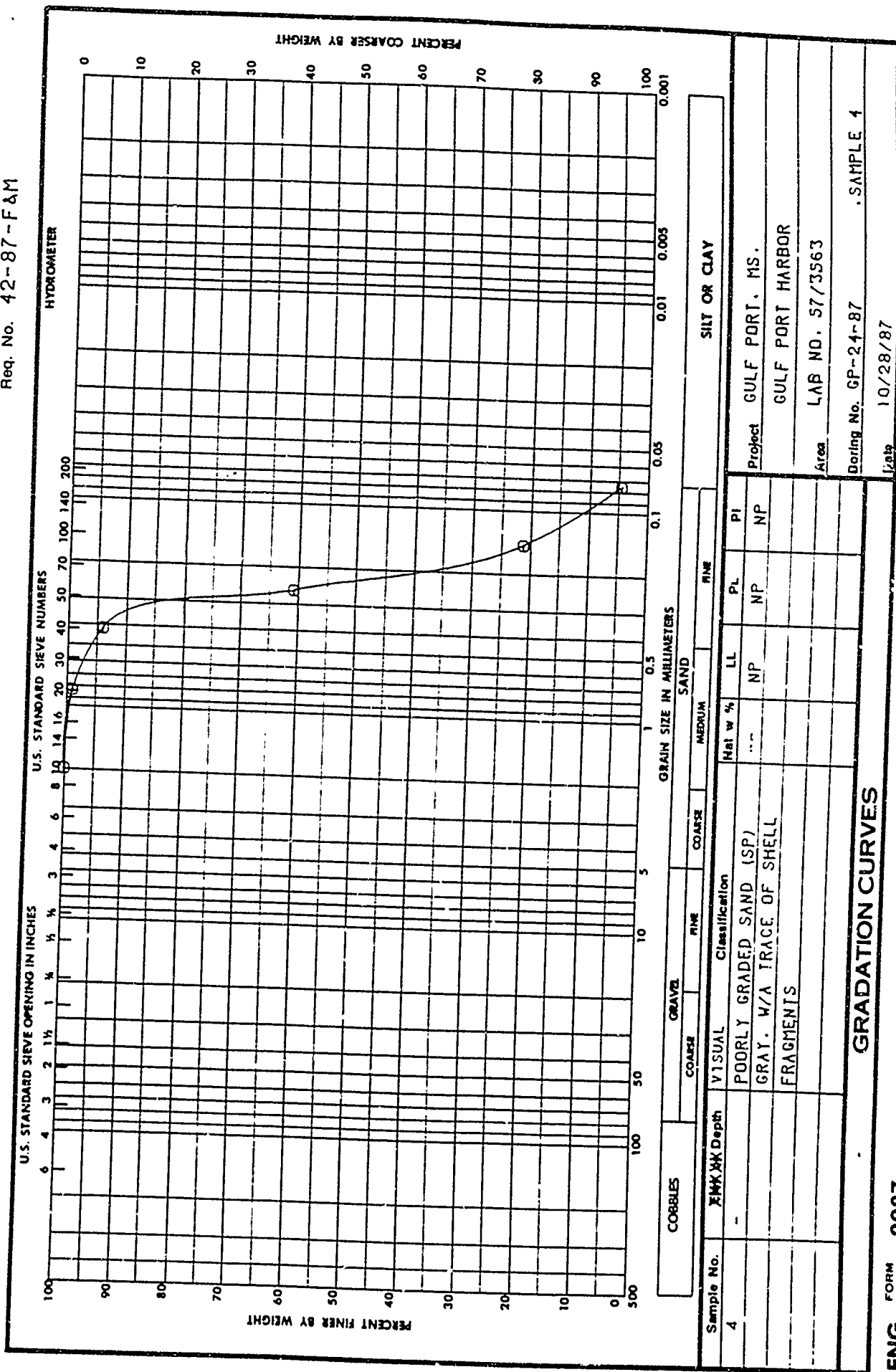


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MAY 63

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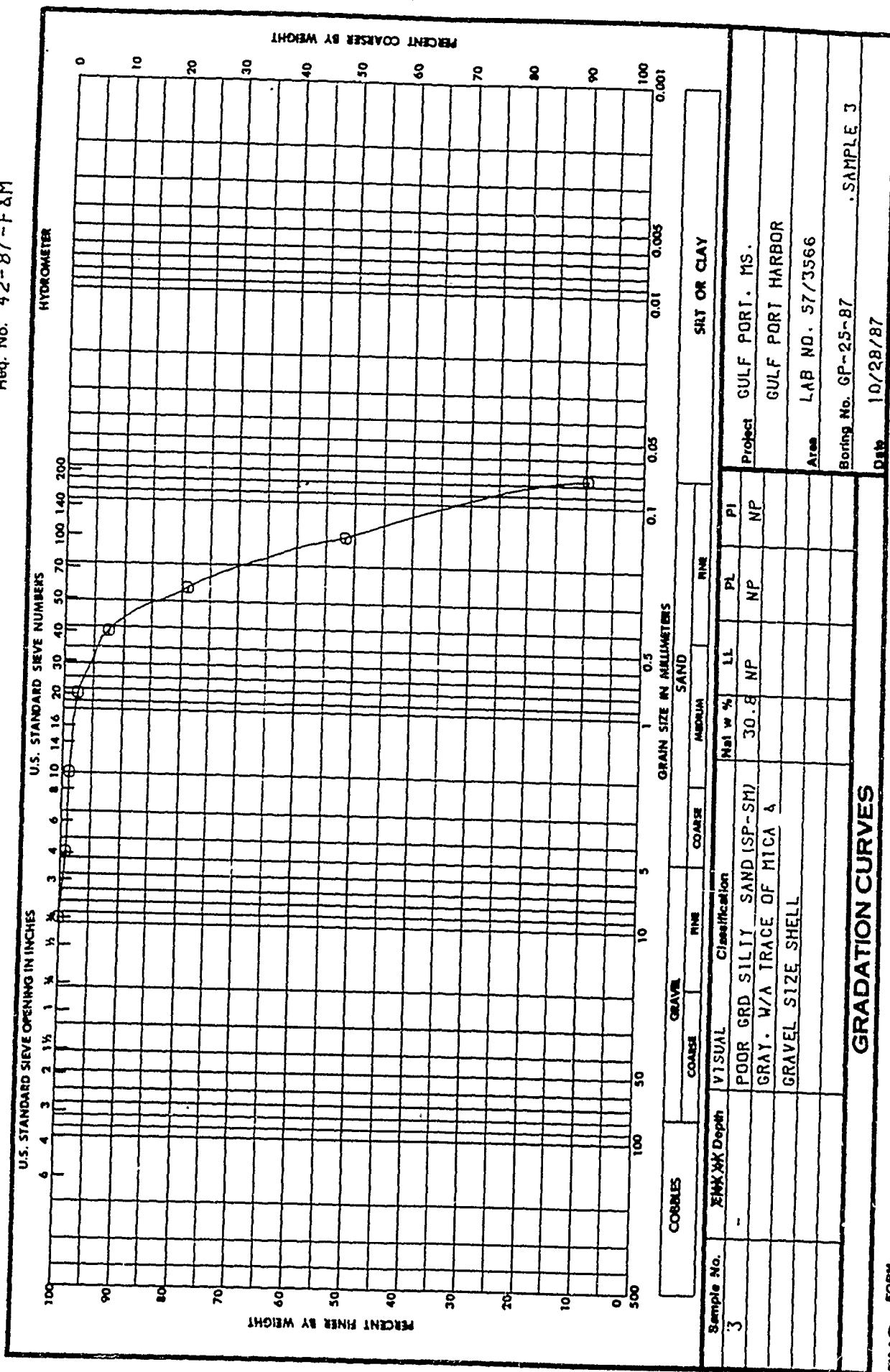


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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

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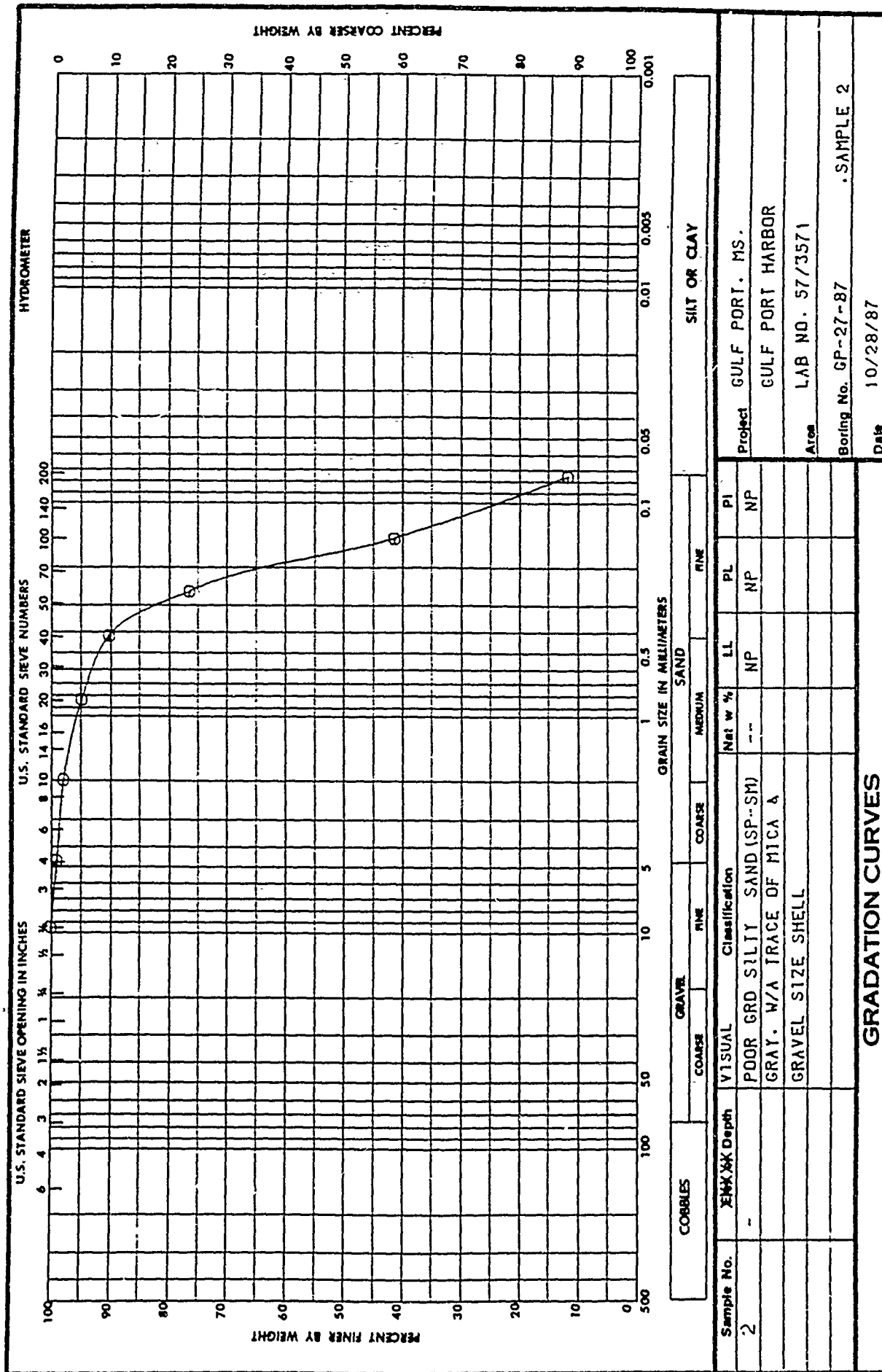
GRADATION CURVES

ENG FORM 1 MAY 63 2087

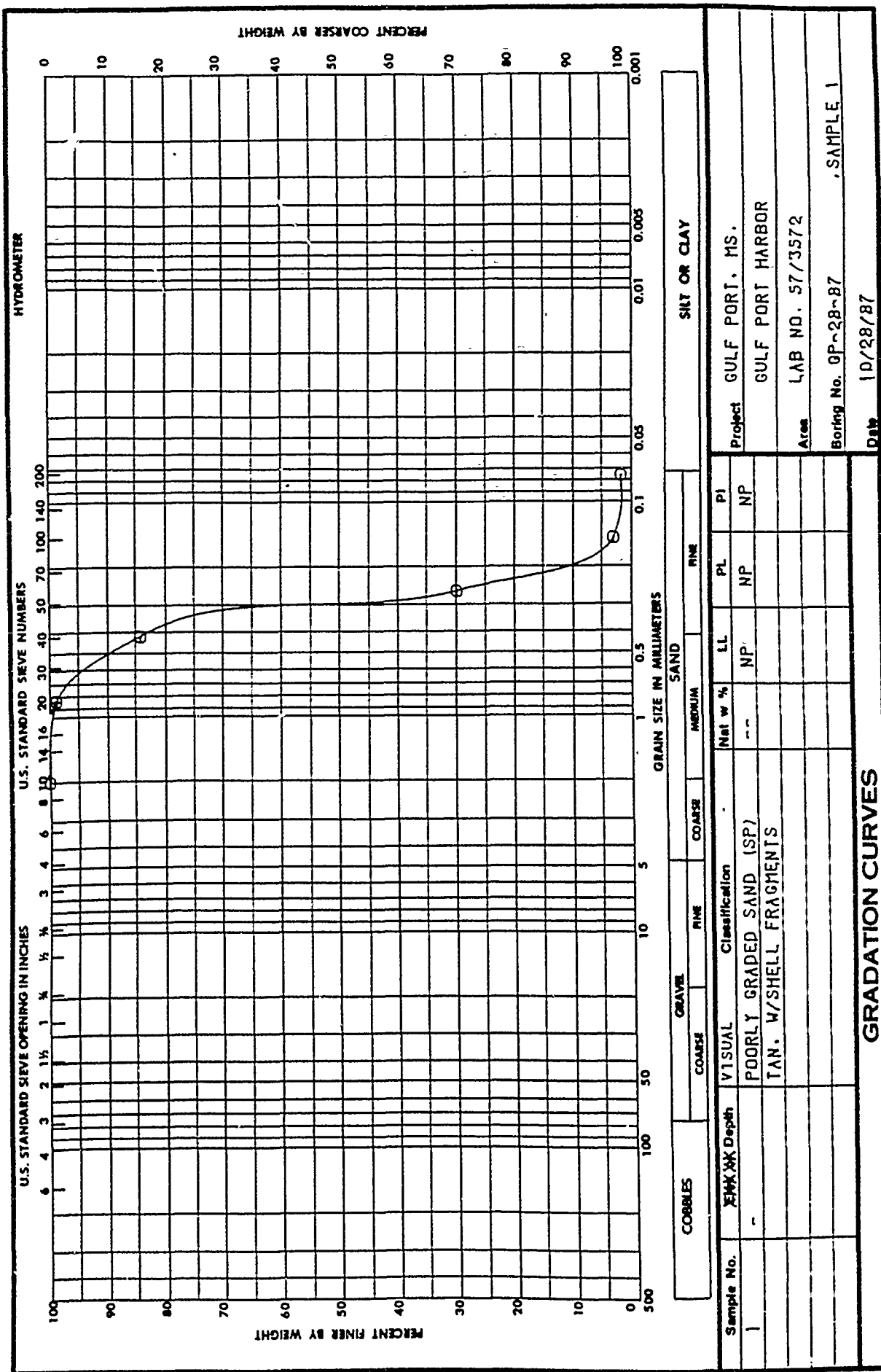
DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

W.O. No. 5327

Req. No. 42-87-F&M



DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION, LABORATORY
OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

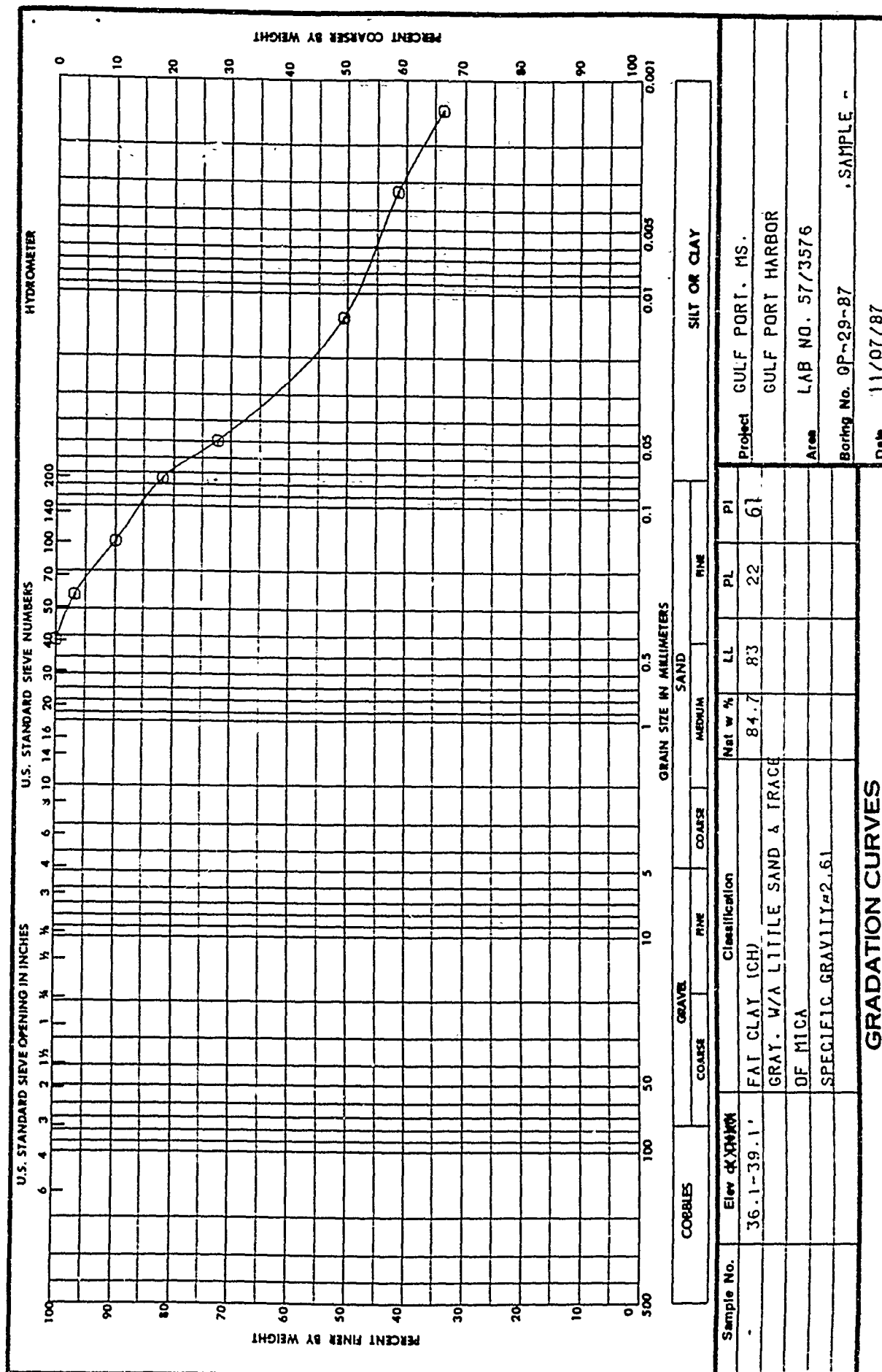


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1 MAY 63

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

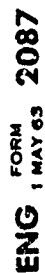
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Req. No. 42-87-F&M



ENG FORM 2087
1 MAY 63

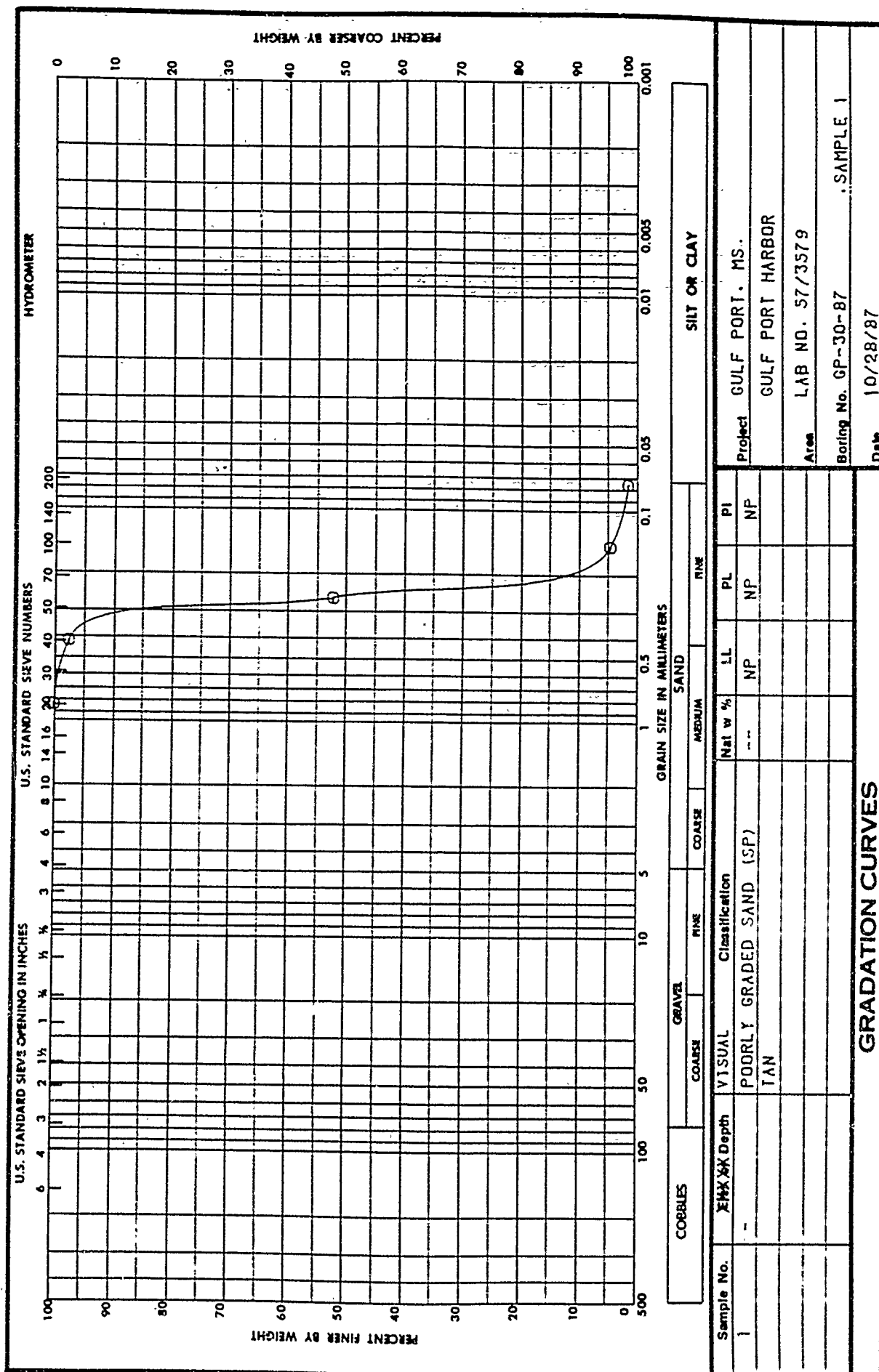
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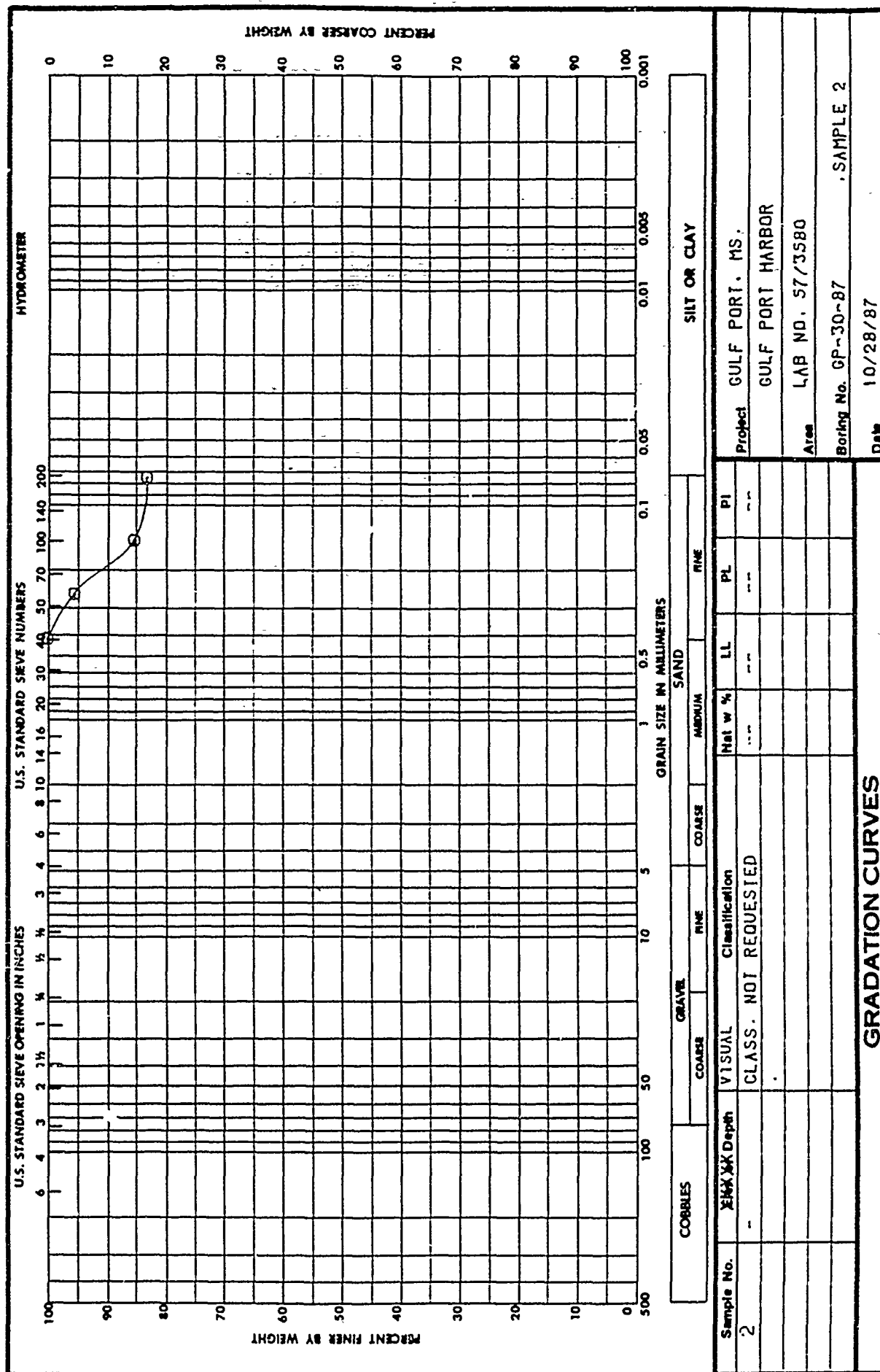
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CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

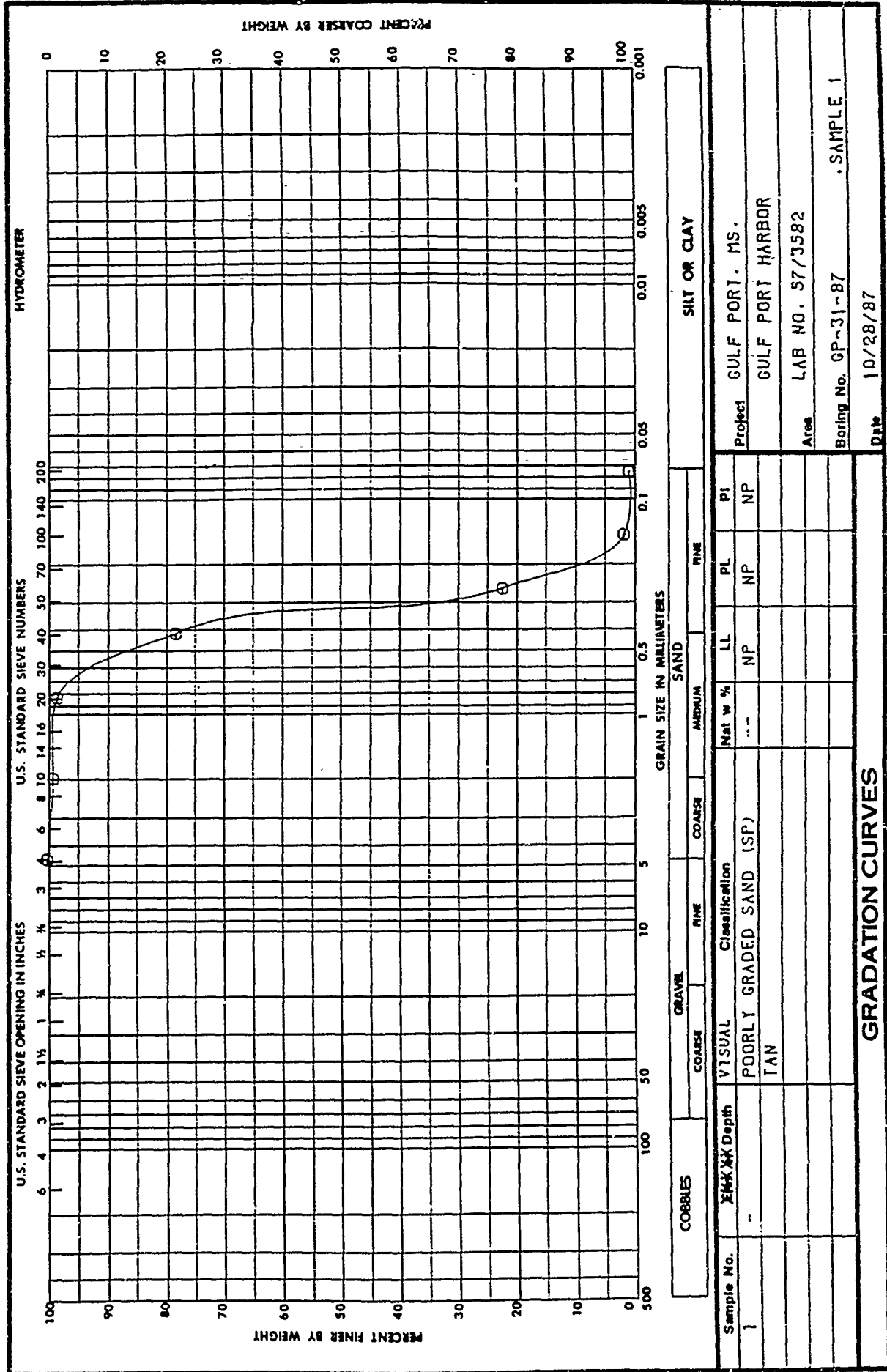


ENG. FORM 2087
JULY 63

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

W.O. No. 5327

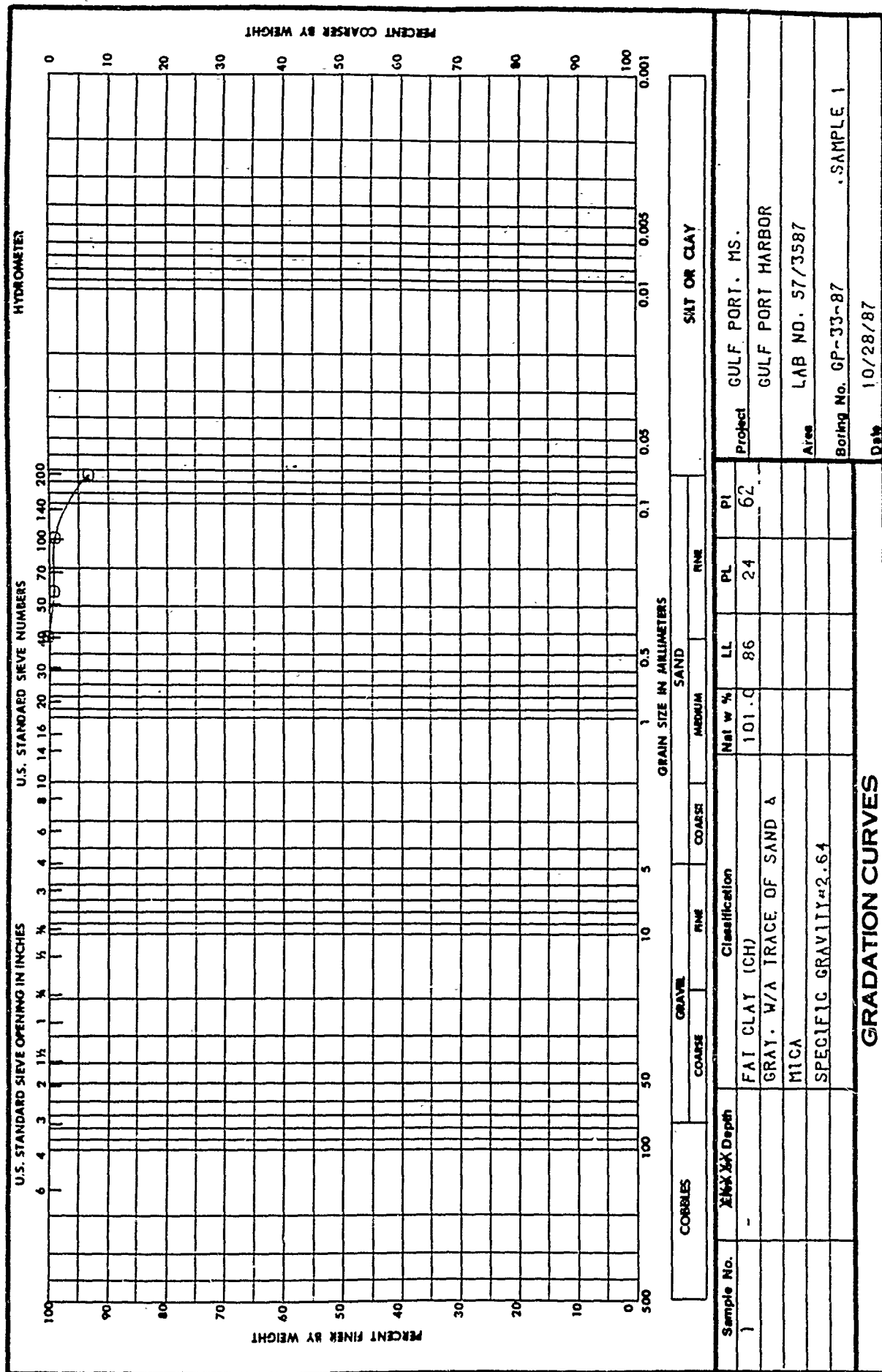
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ENG FORM 1 MAY 63 2087

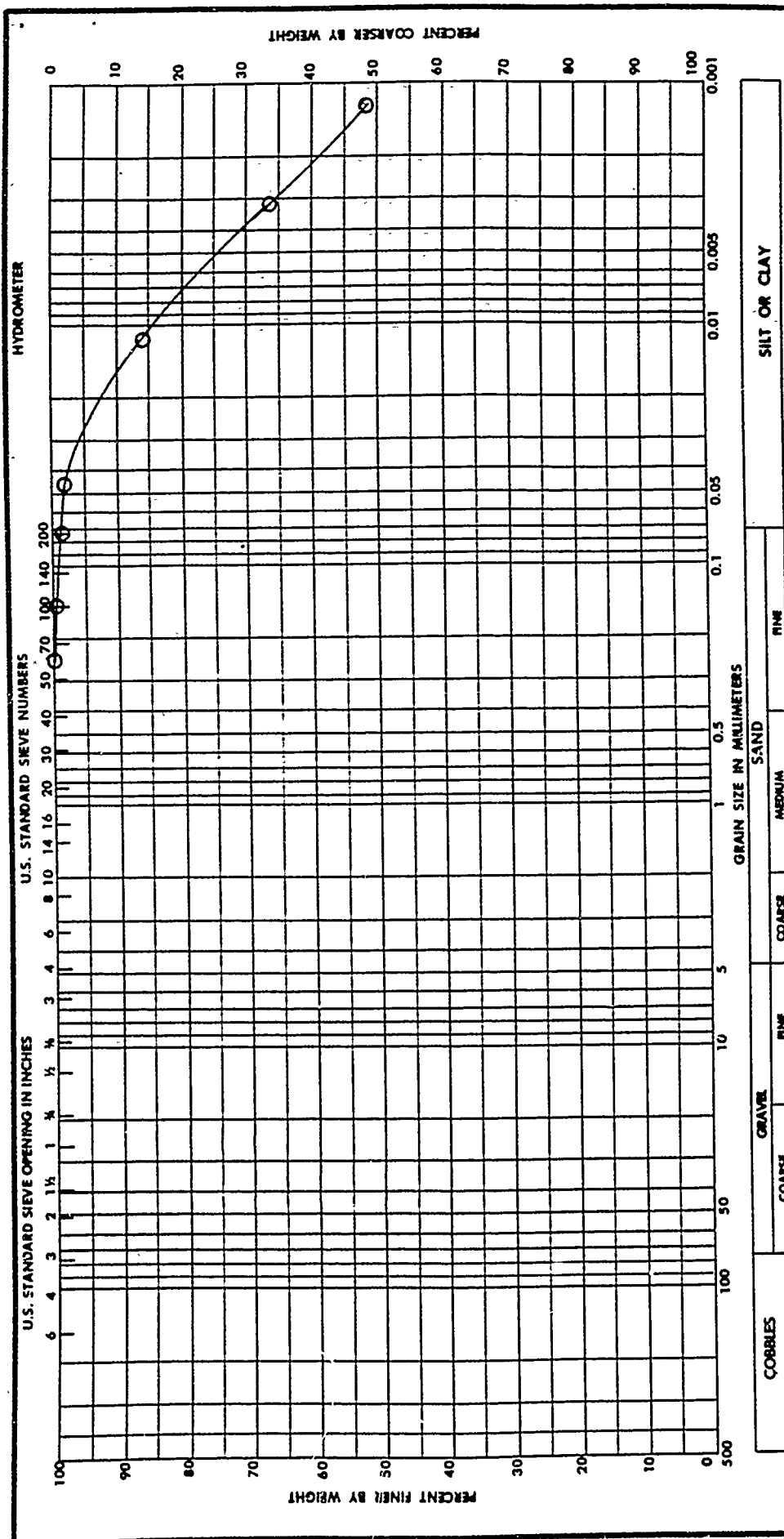
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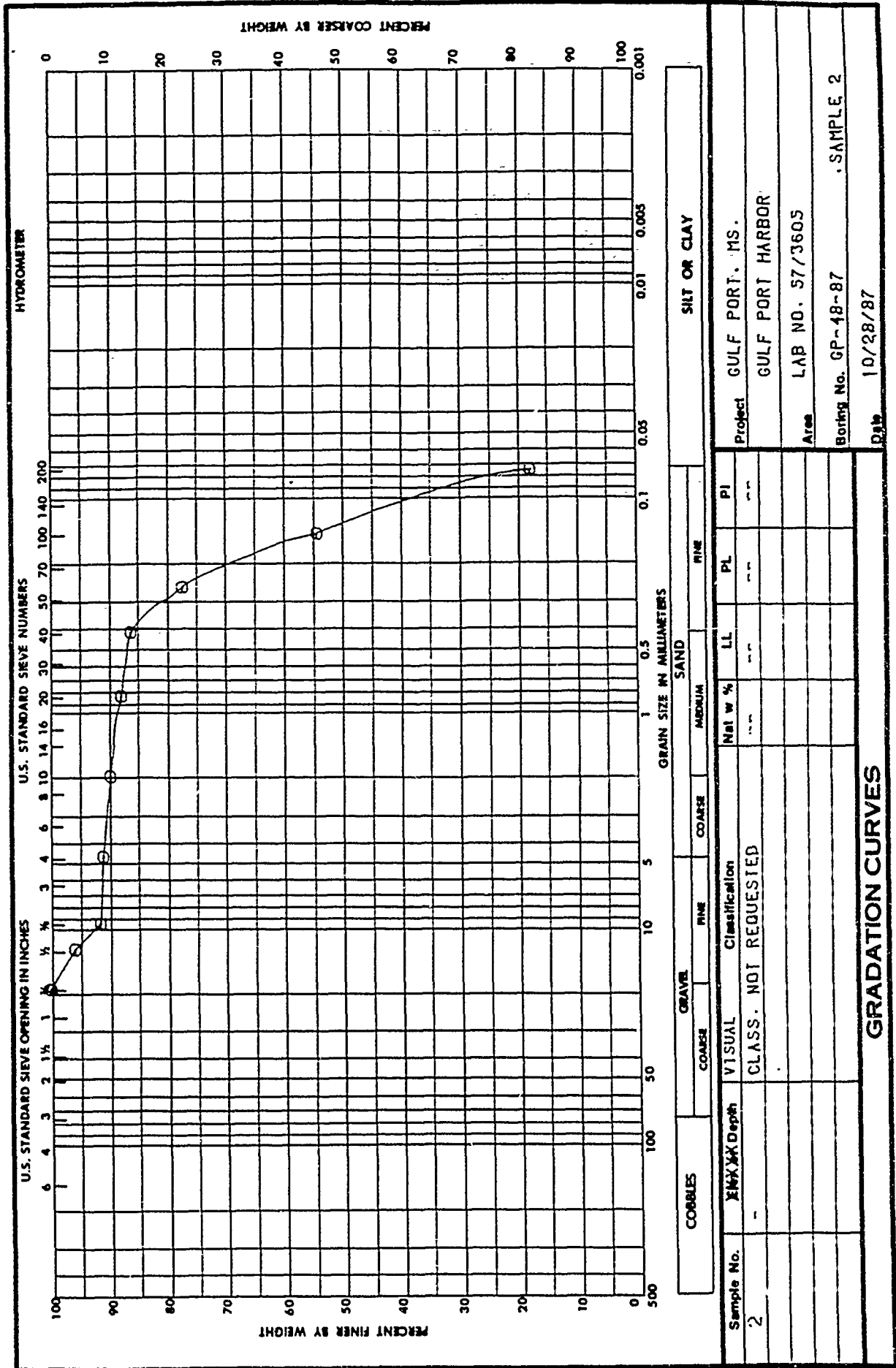
Sample No.	Elev & X&Y	Classification	Nat w %	LL	PL	PI
--	36.7-39.7'	FAT CLAY (CH) GRAY. WITH A TRACE OF SAND & MICA	150.5	116	38	78
		SPECIFIC GRAVITY = 2.65				
Project			GULF PORT, MS			
			GULF PORT HARBOR			
Area			LAB NO. 57/3601			
Boring No.			GP-45-87 Sample --			
Date			11/09/87			

GRADATION CURVES

ENG **FORM 2087**
1 MAY 63

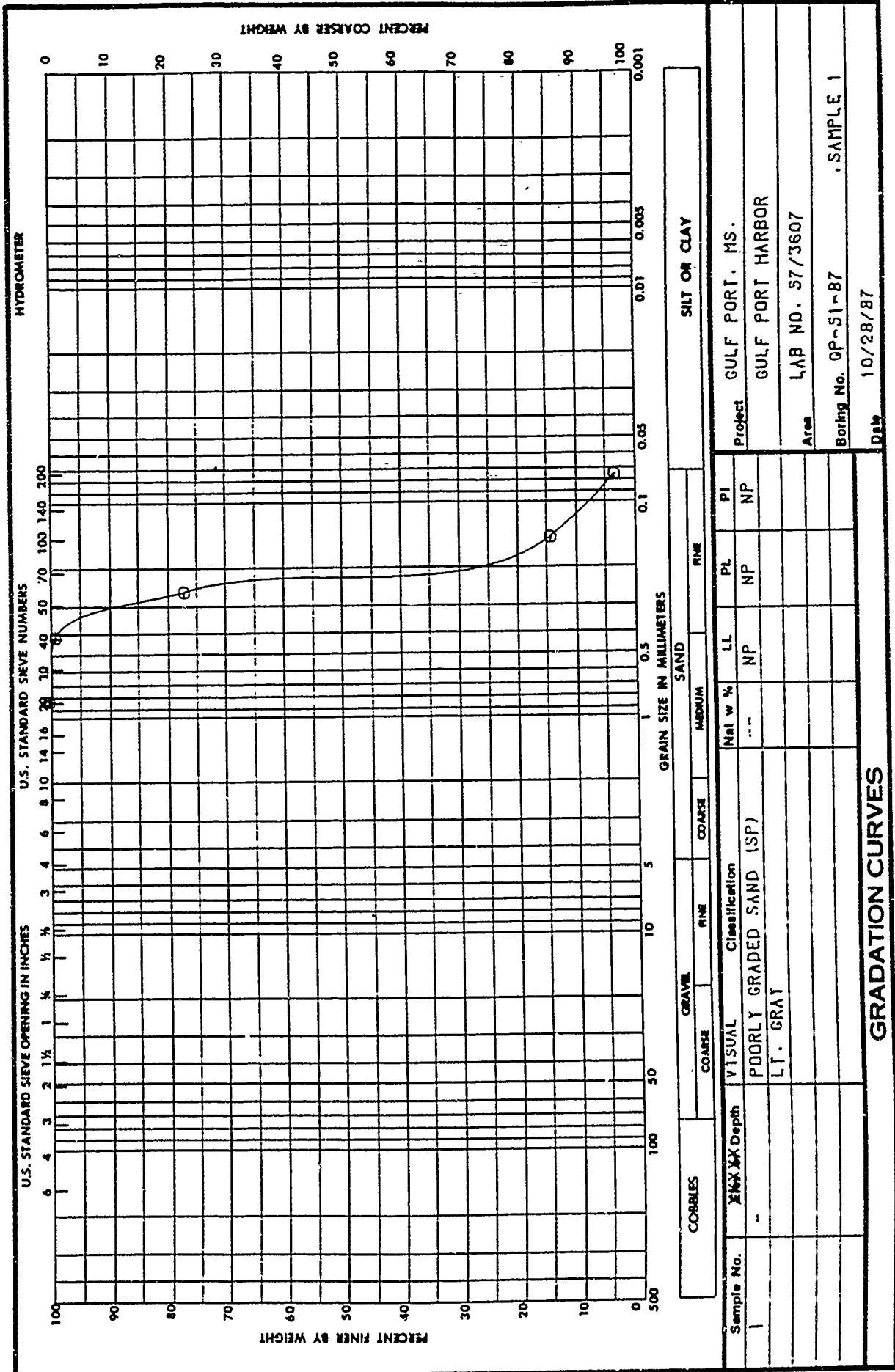
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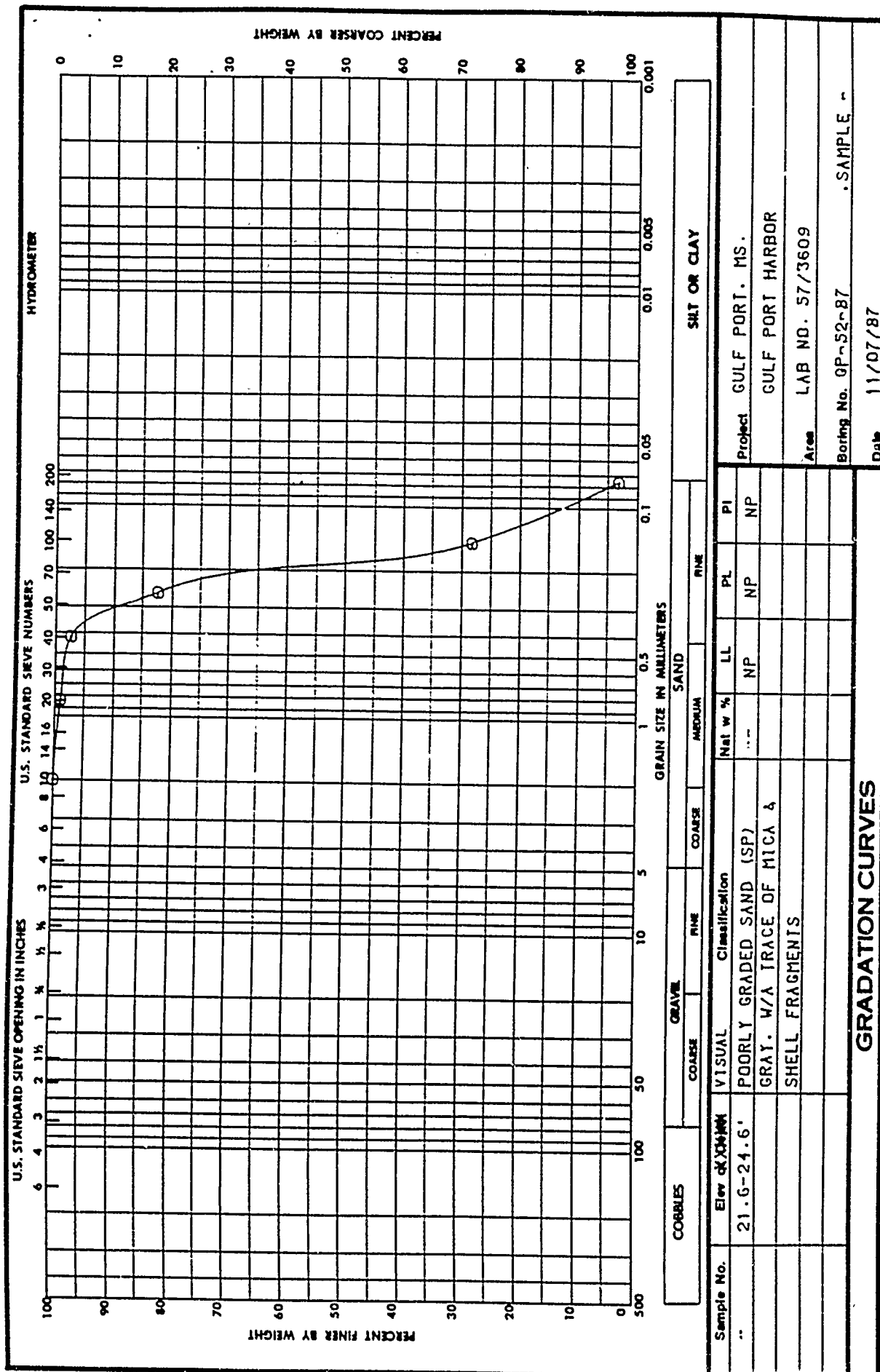
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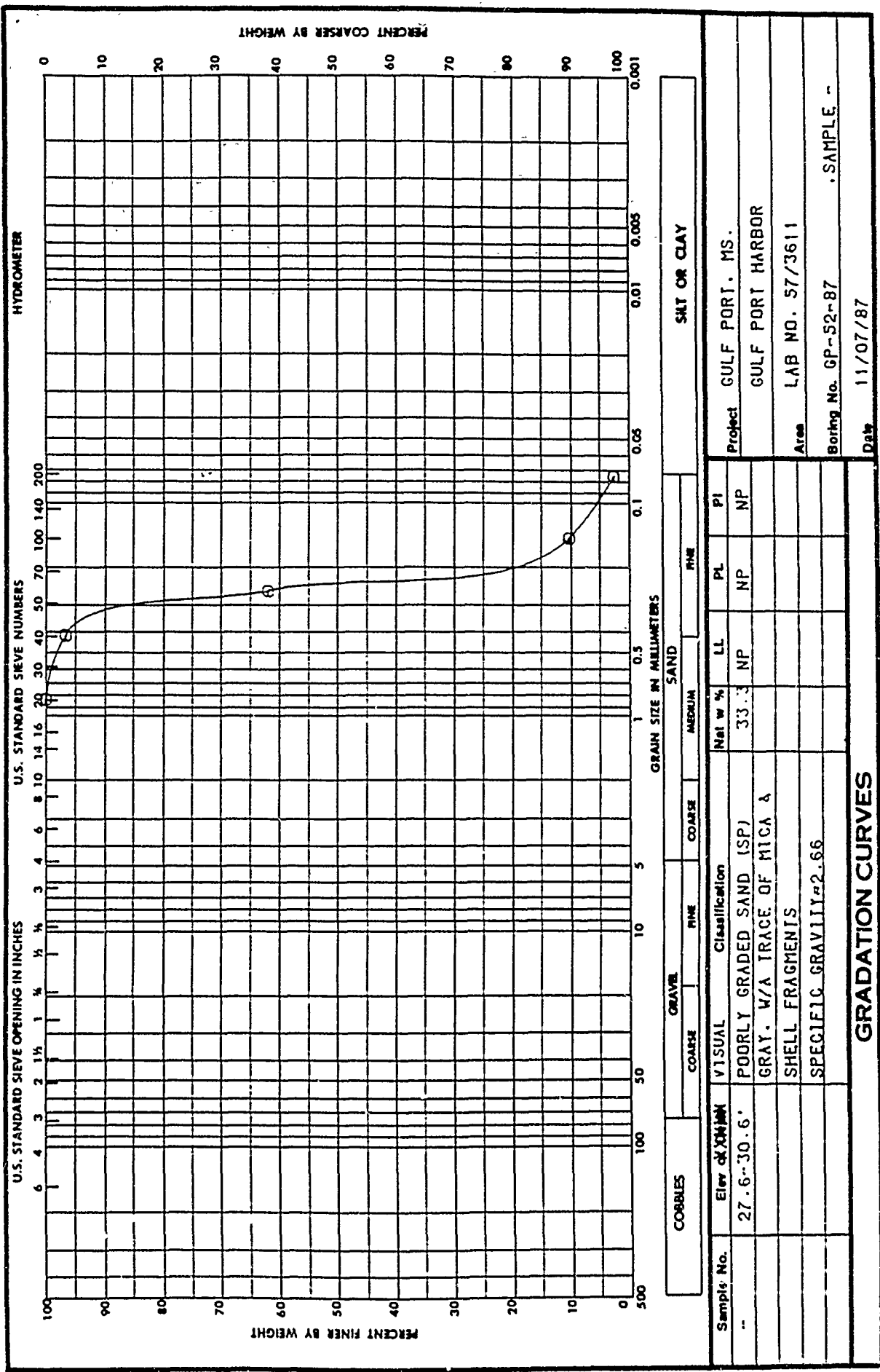
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ENG FORM 2087
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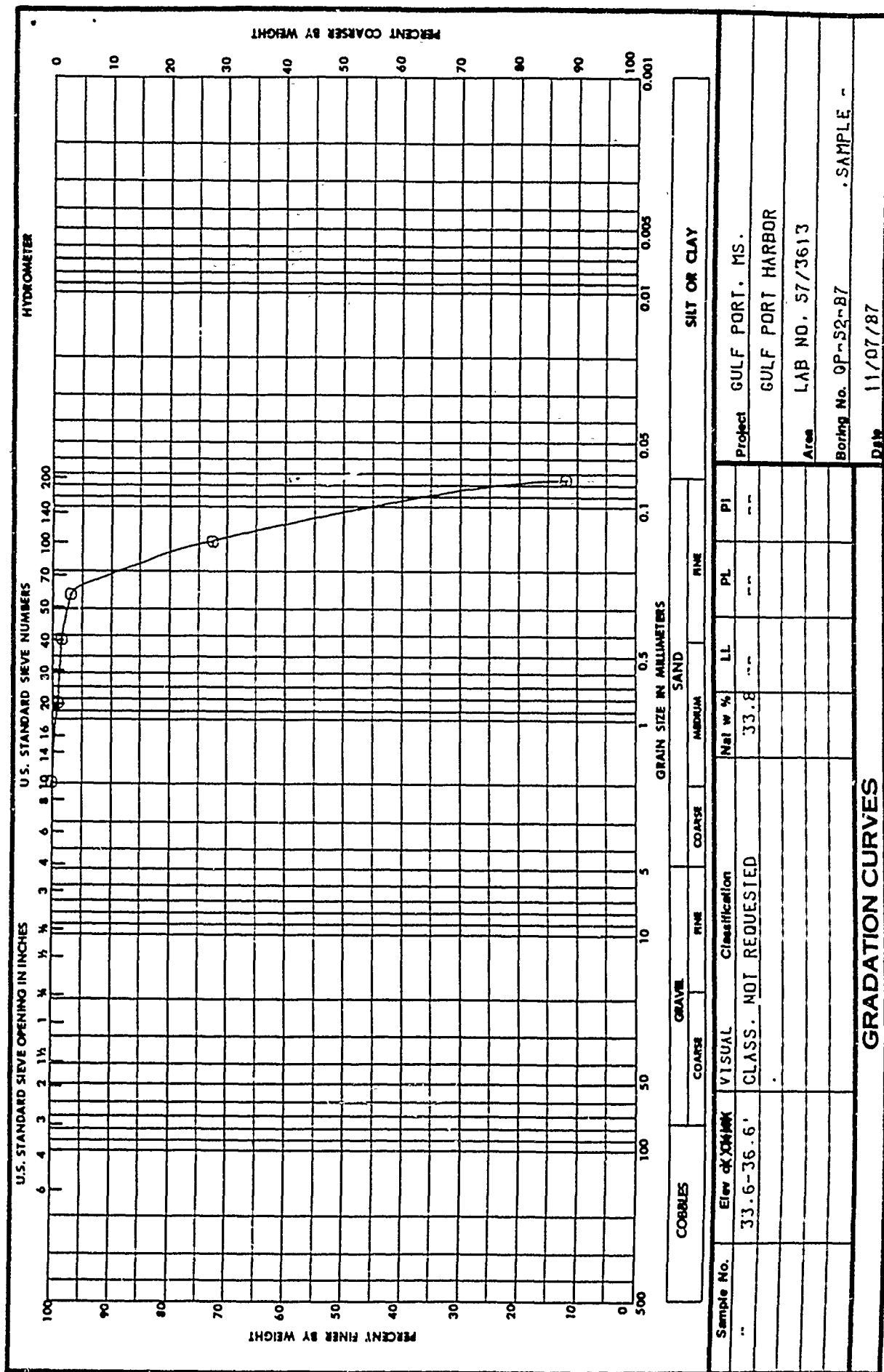
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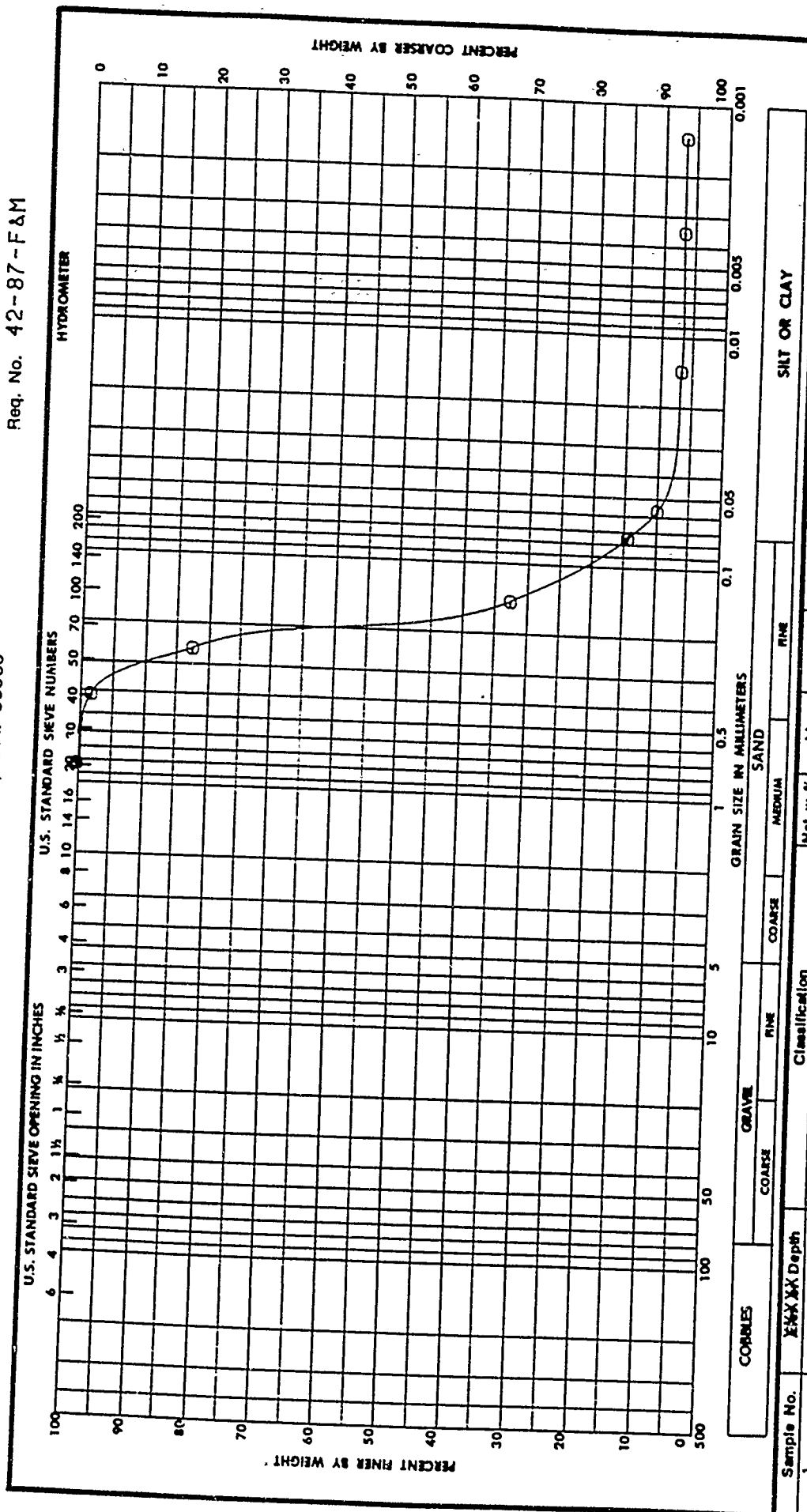


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MAY 63

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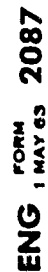
Req. No. 42-87-F&M



Sample No.		Silt or Clay	
1		GULF PORT, MS.	
Classification		GULF PORT HARBOR	
SILTY SAND (SM)		LAB NO. 57/3615	
GRAY		Boring No. GP-53-87	
		SAMPLE 1	
		Date 10/28/87	
GRADATION CURVES			

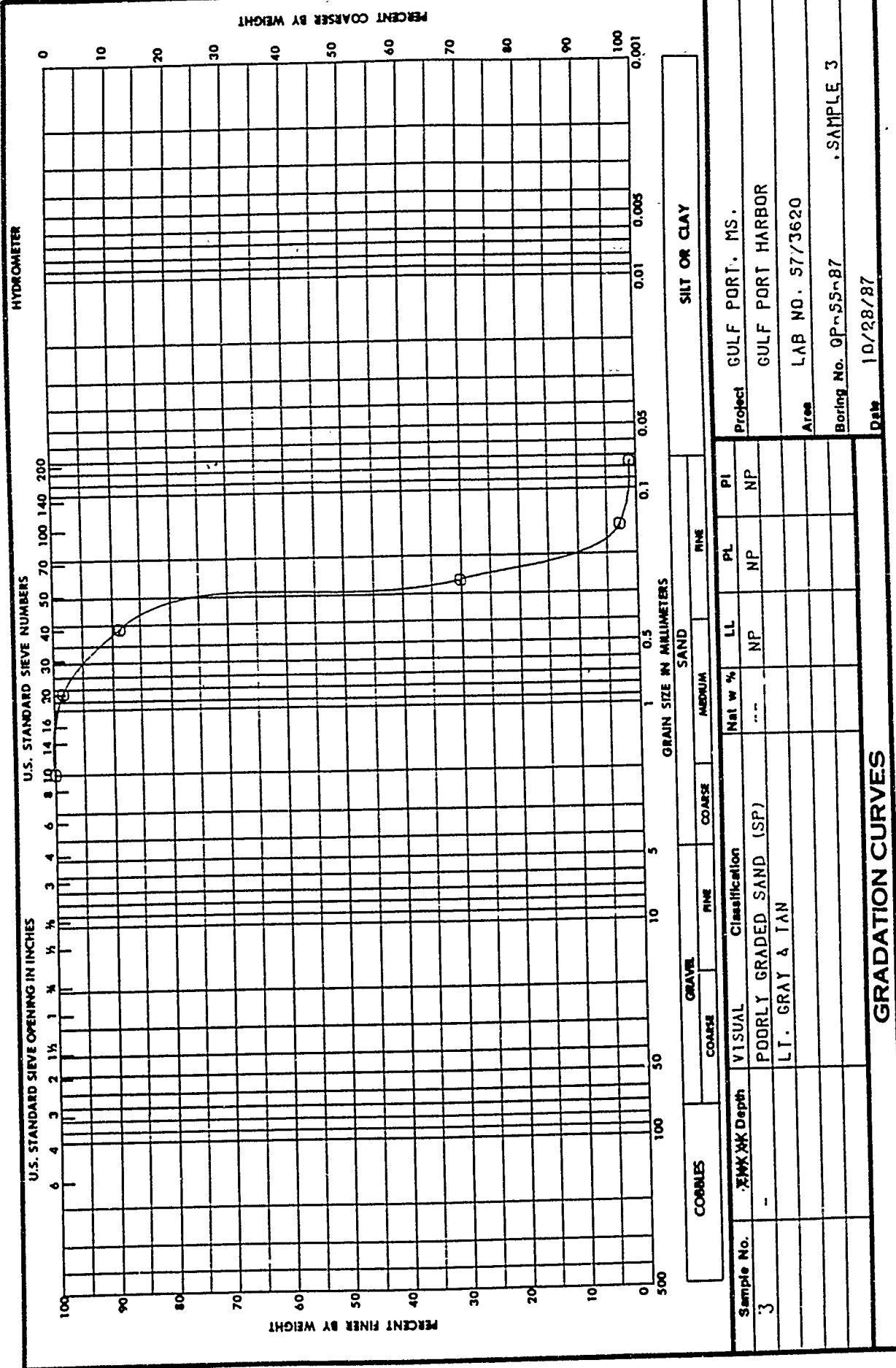
ENG FORM 2087
1 MAY 63

W.O. No. 5327
Req. No. 42-87-F&M



DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

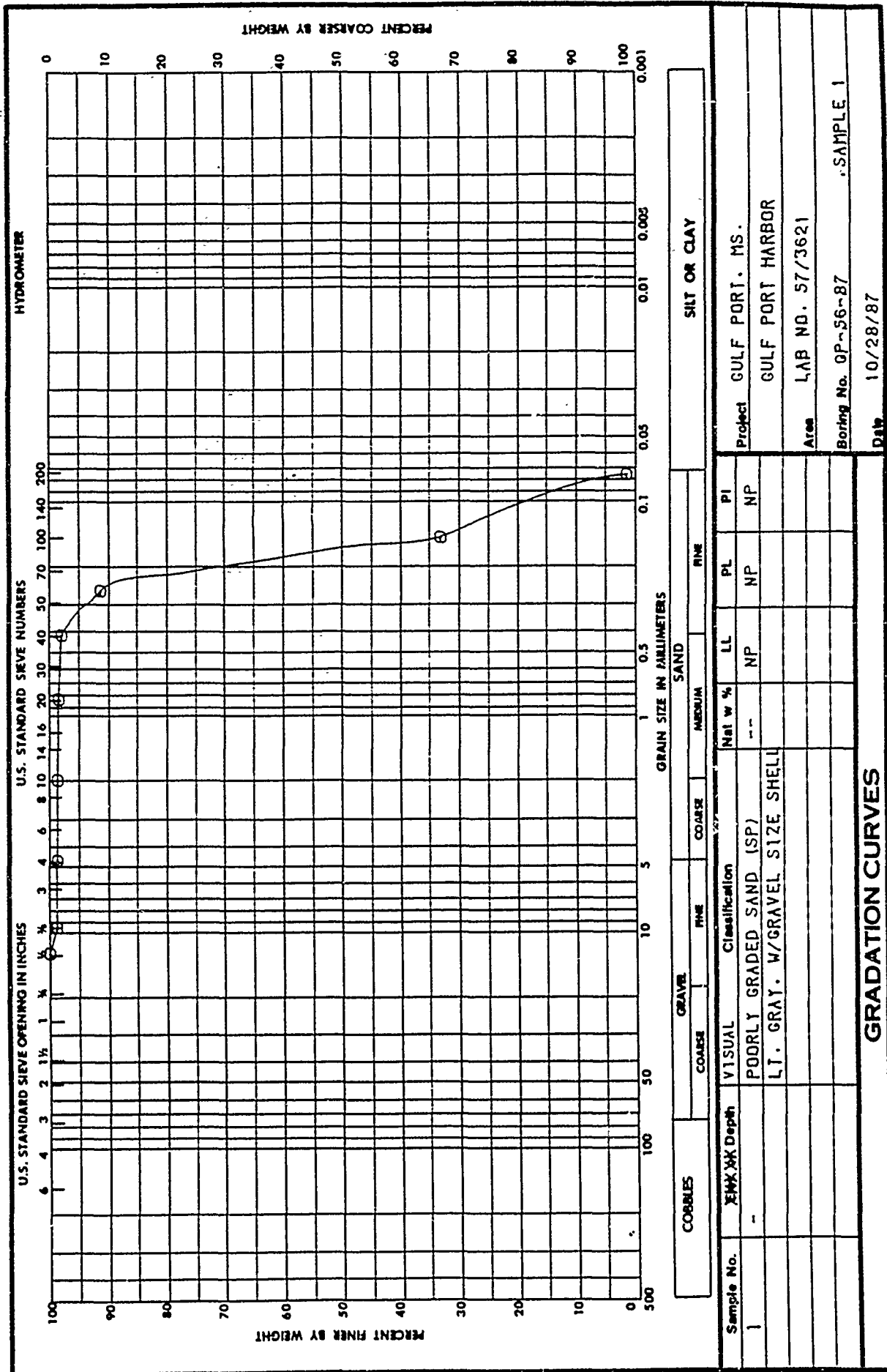
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ENG **FORM** **2087**
1 MAY 63

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

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Req. No. 42-87-F&M

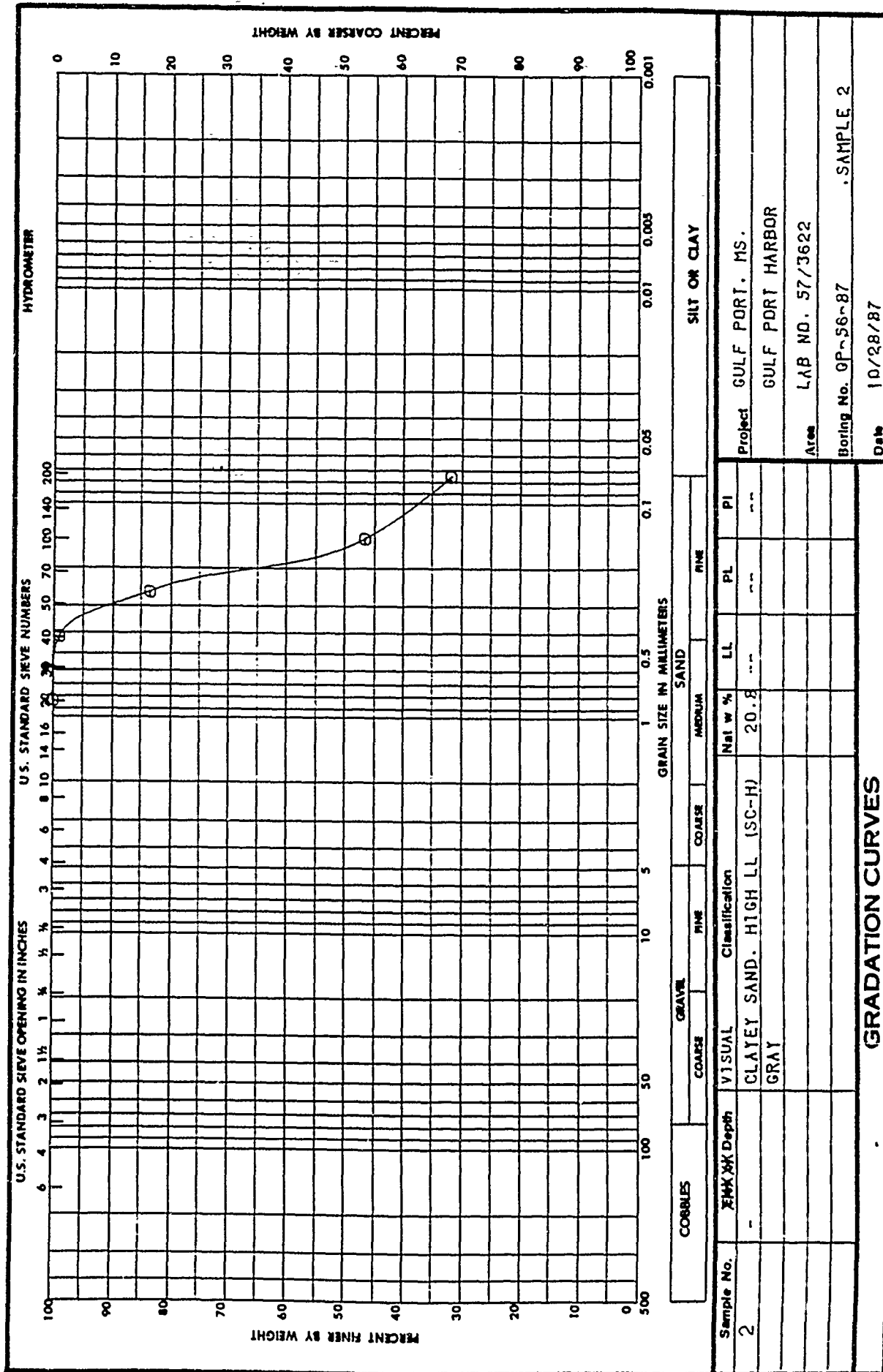


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MAY 63

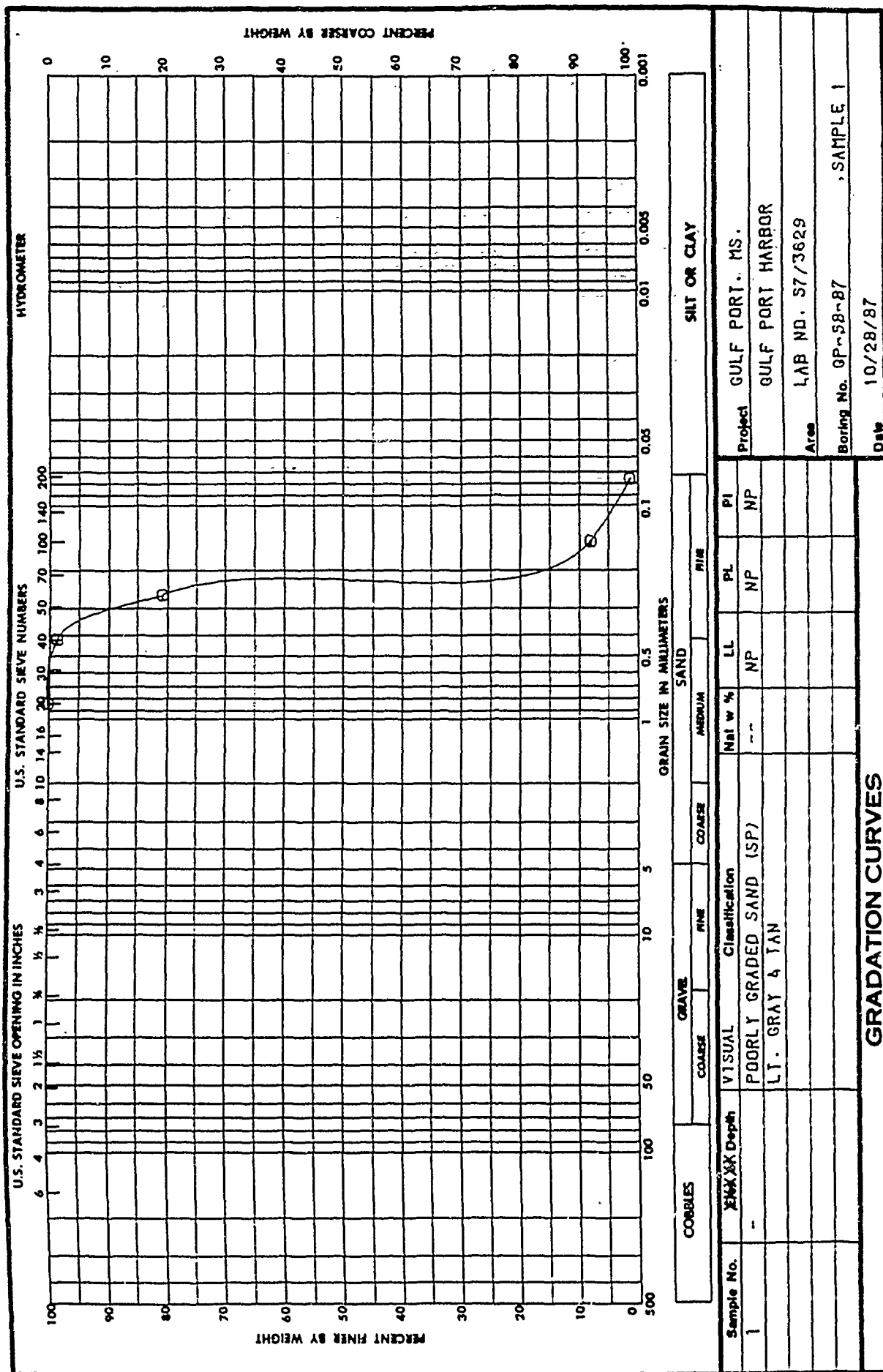
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CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

W.O. No. 5327

Req. No. 42-87-FAM



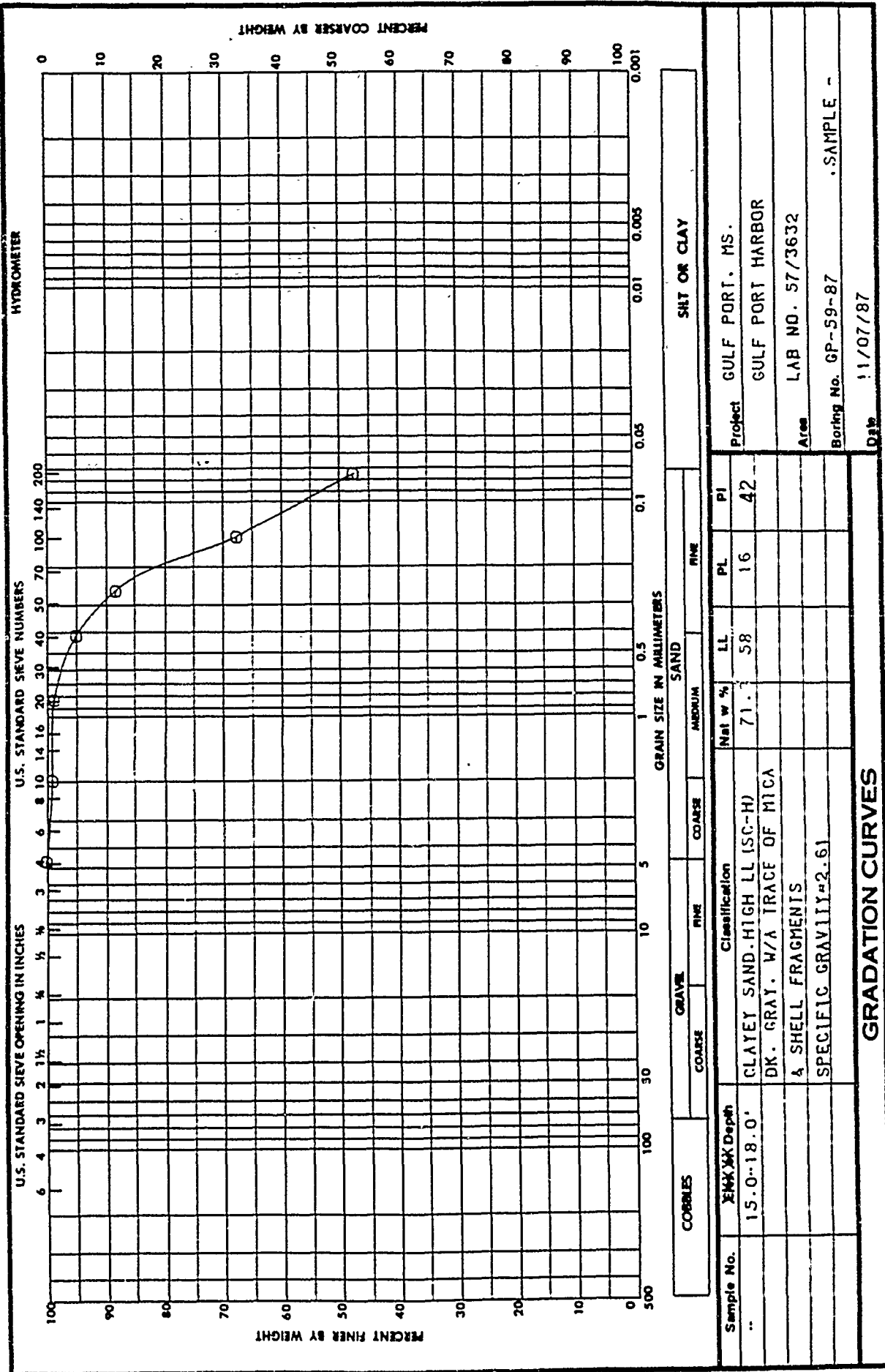
DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA 30060



ENG **FORM 2087**
'AY 63

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

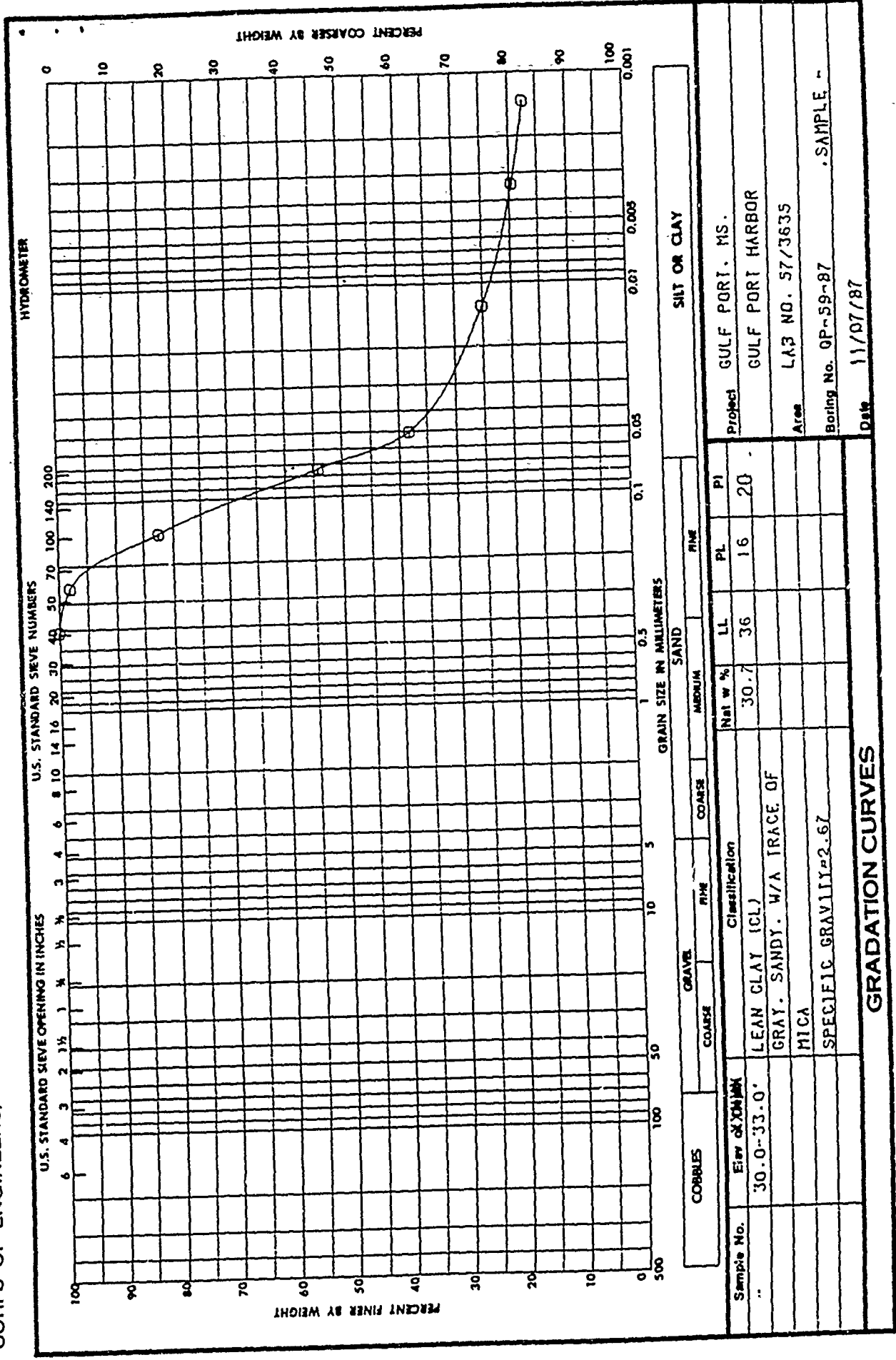
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Req. No. 42-87-F&M



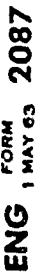
ENG FORM 2087
1 MAY 63

W.O. No. 5327
 Req. No. 42-87-F&M

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 CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

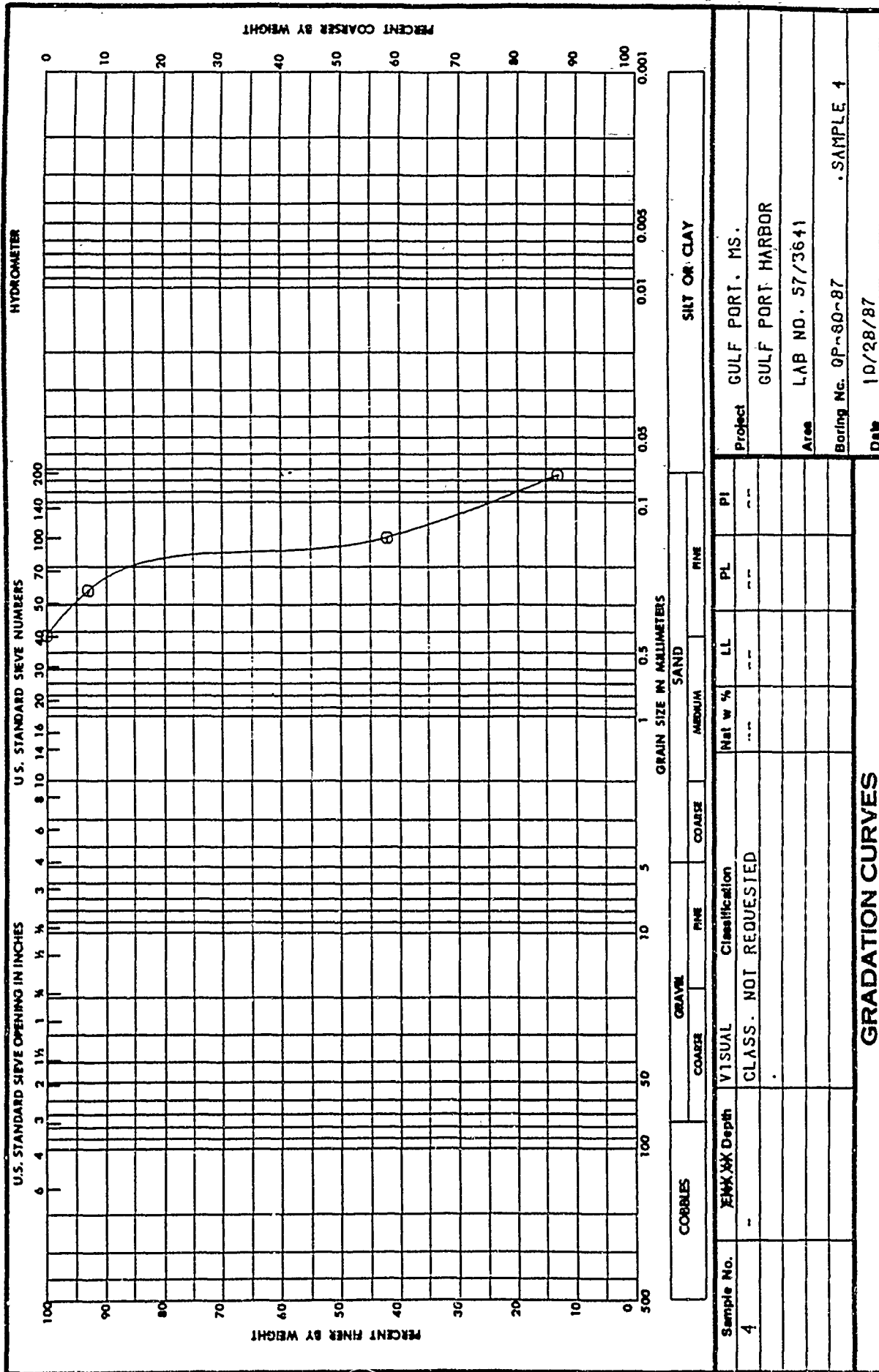


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CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

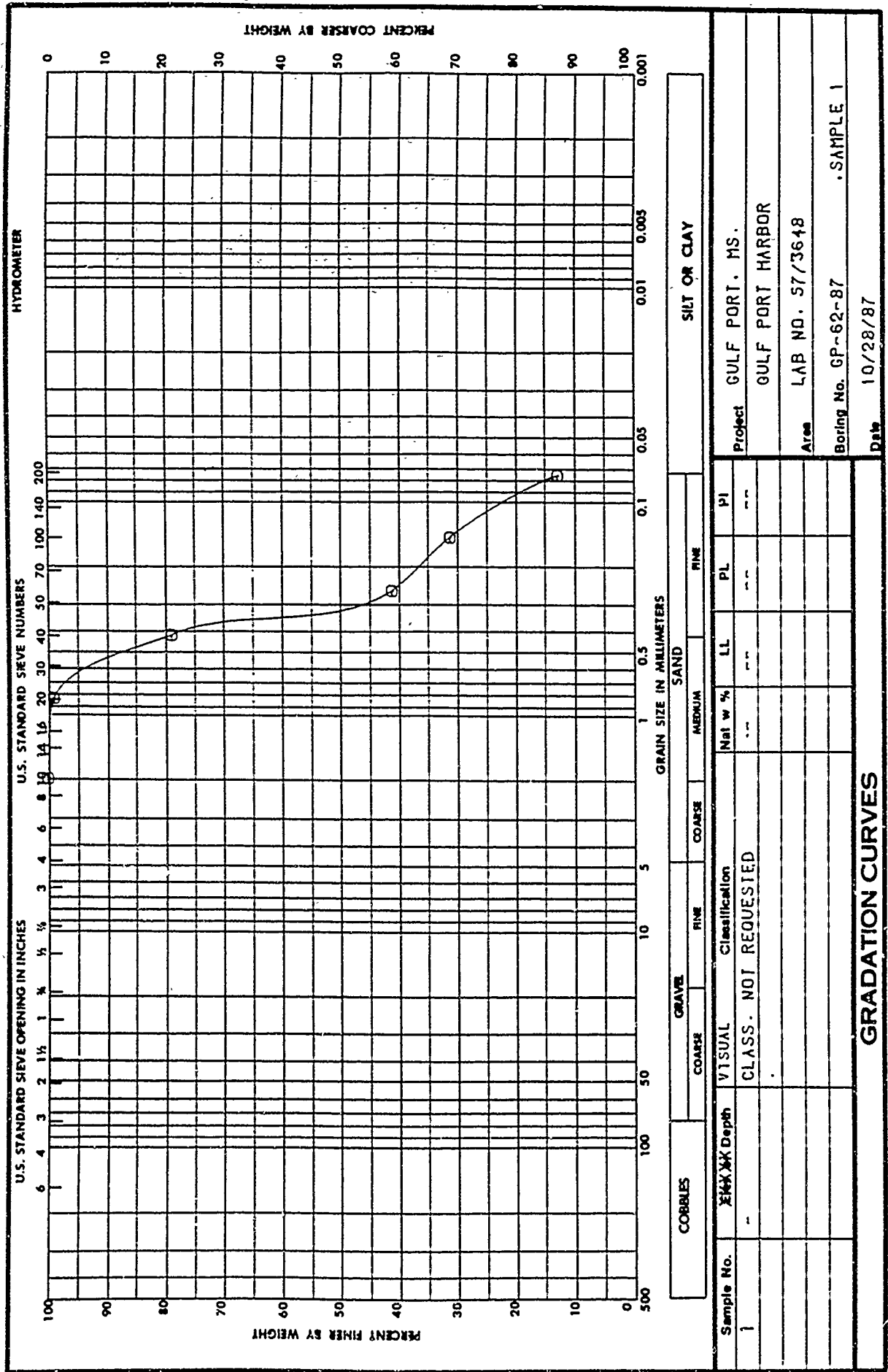
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1 MAY 63

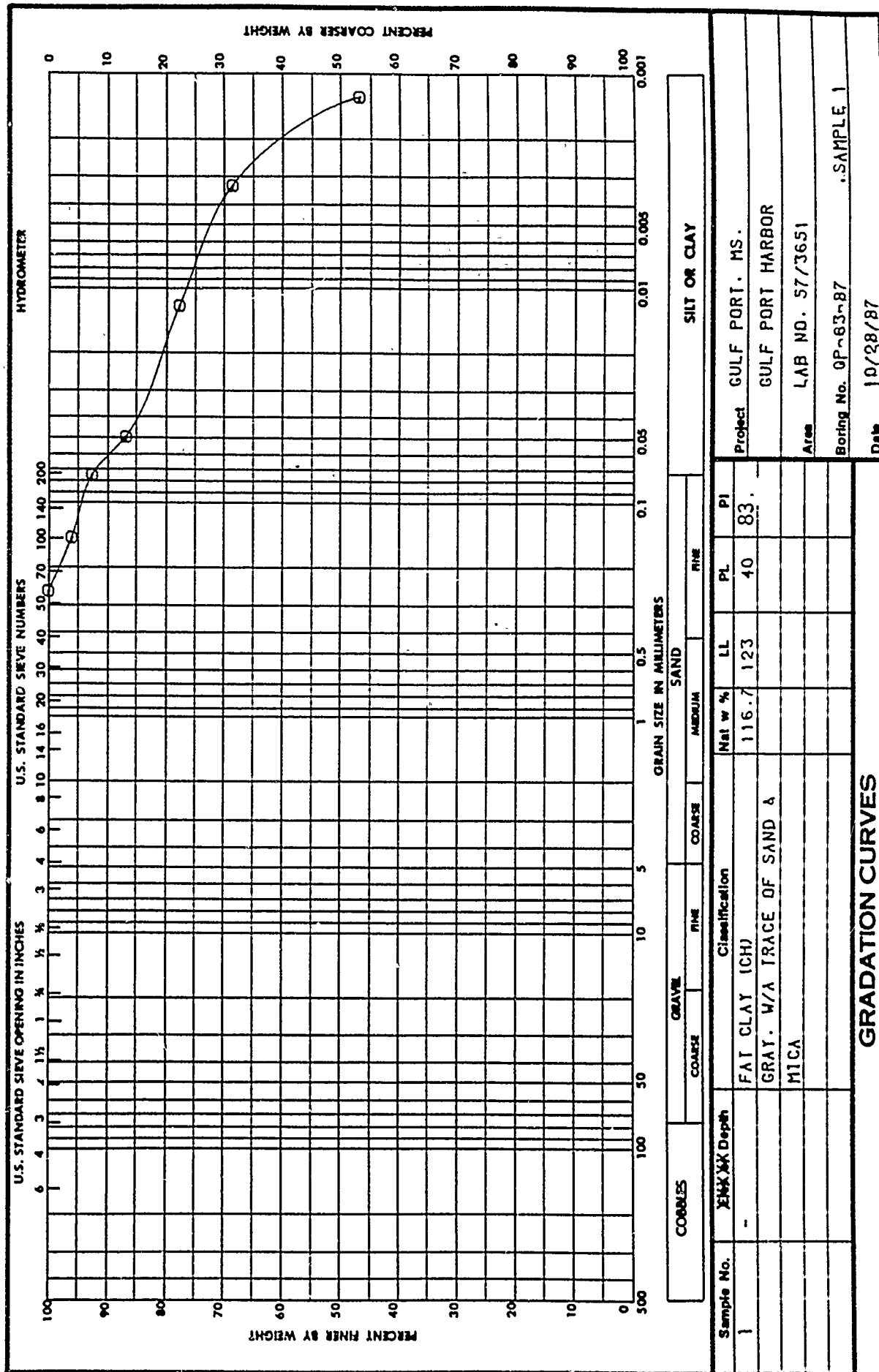
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 Req. No. 42-87-F&M

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
 CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA 30060



DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

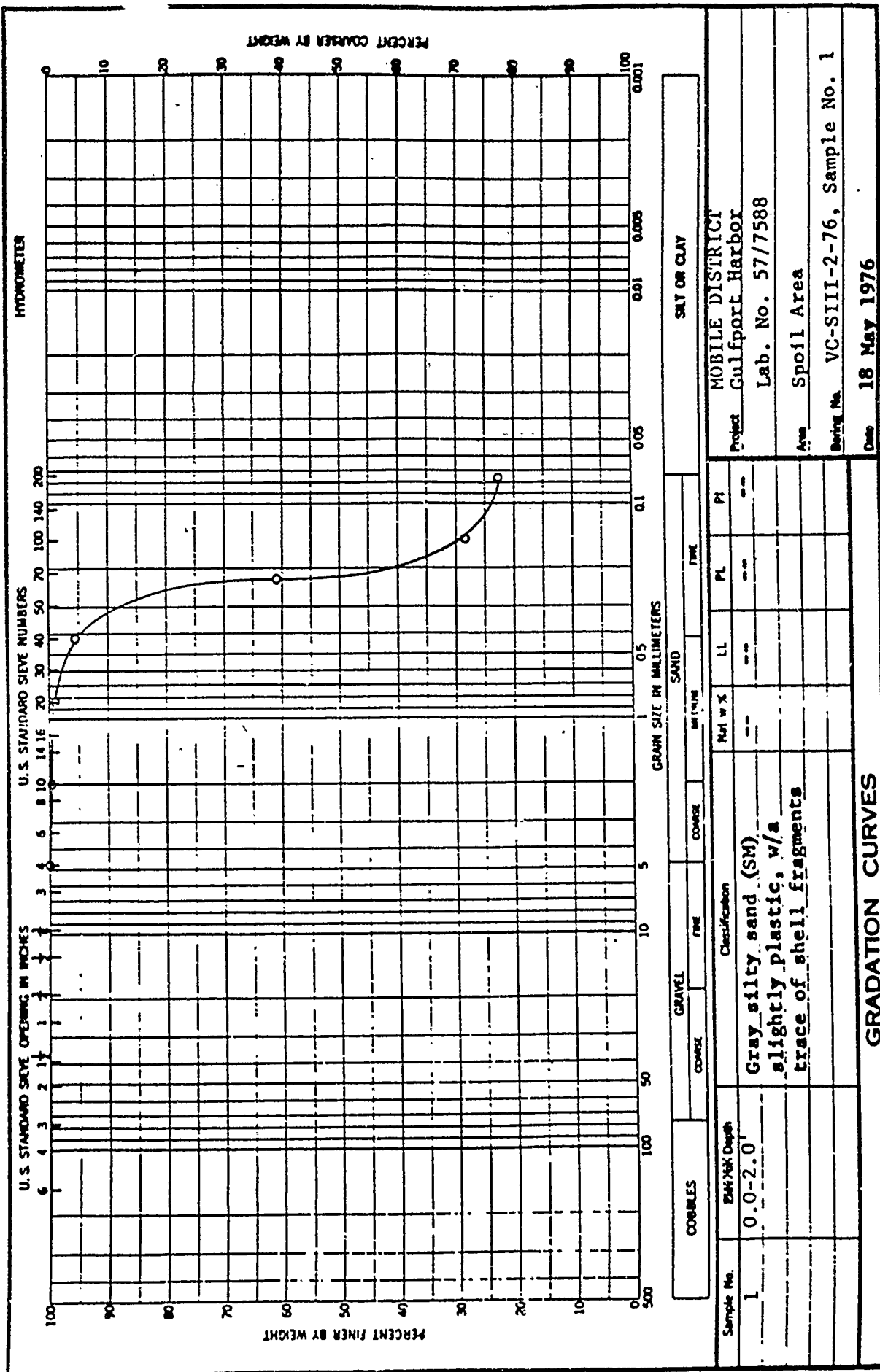
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Req. No. 42-87-F&M



ENG FORM 2087
1 MAY 63

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30061

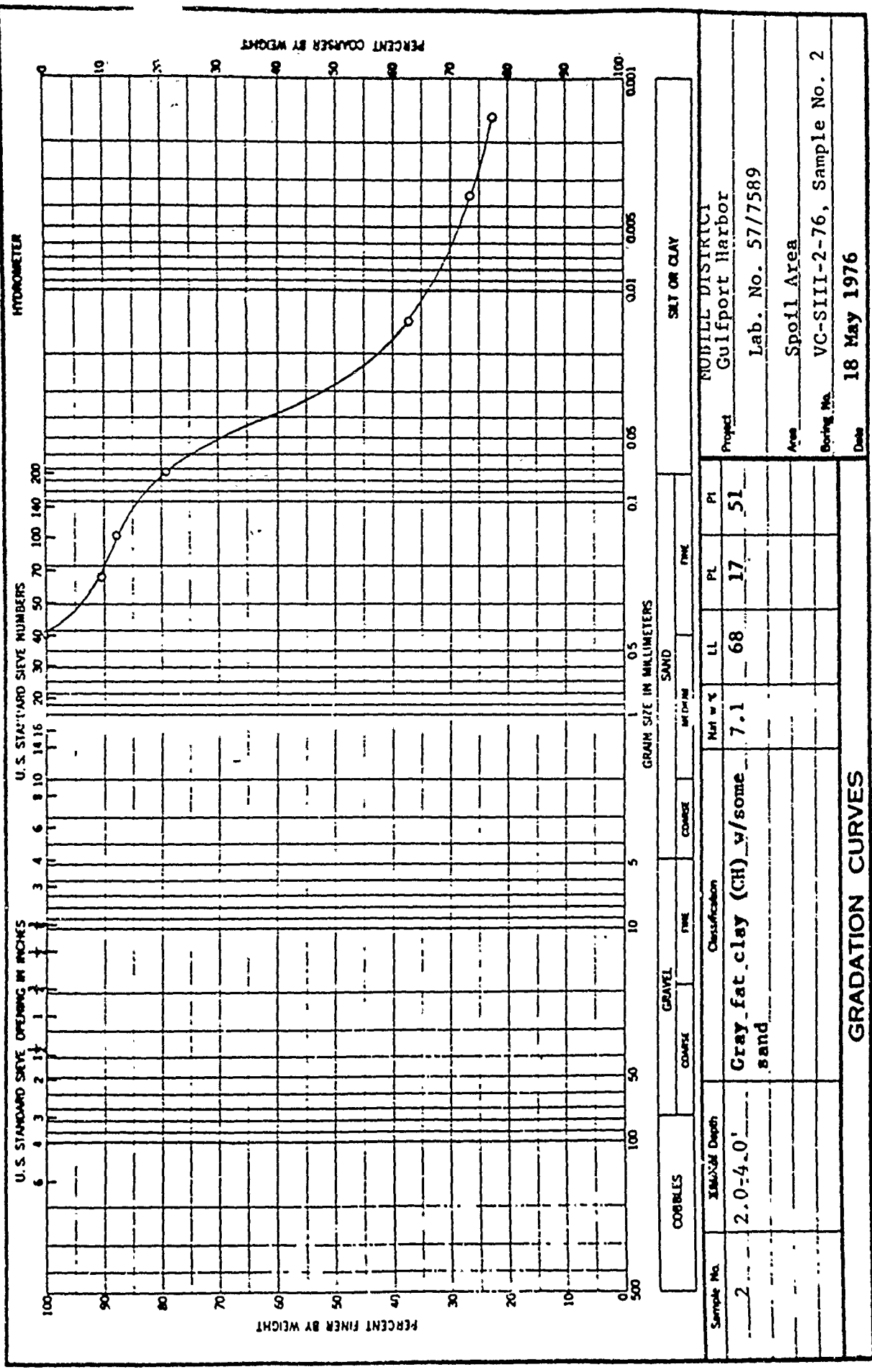
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Req. No. 66-76-F & M



ENG FORM 2087
1 MAY 63

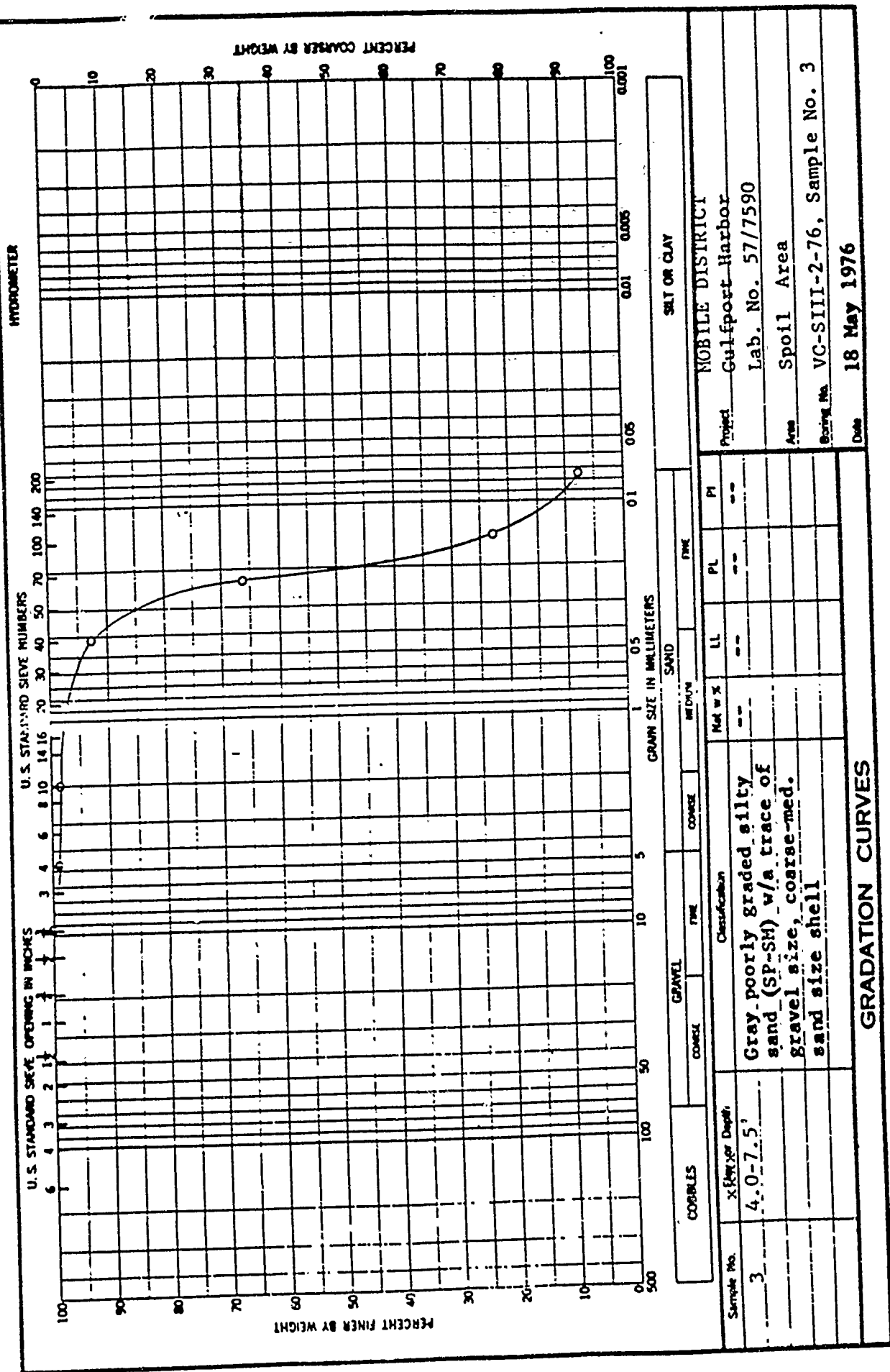
DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30061

WORK ORDER NO. 9784
Req. No. 66-76-F & M



DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30061

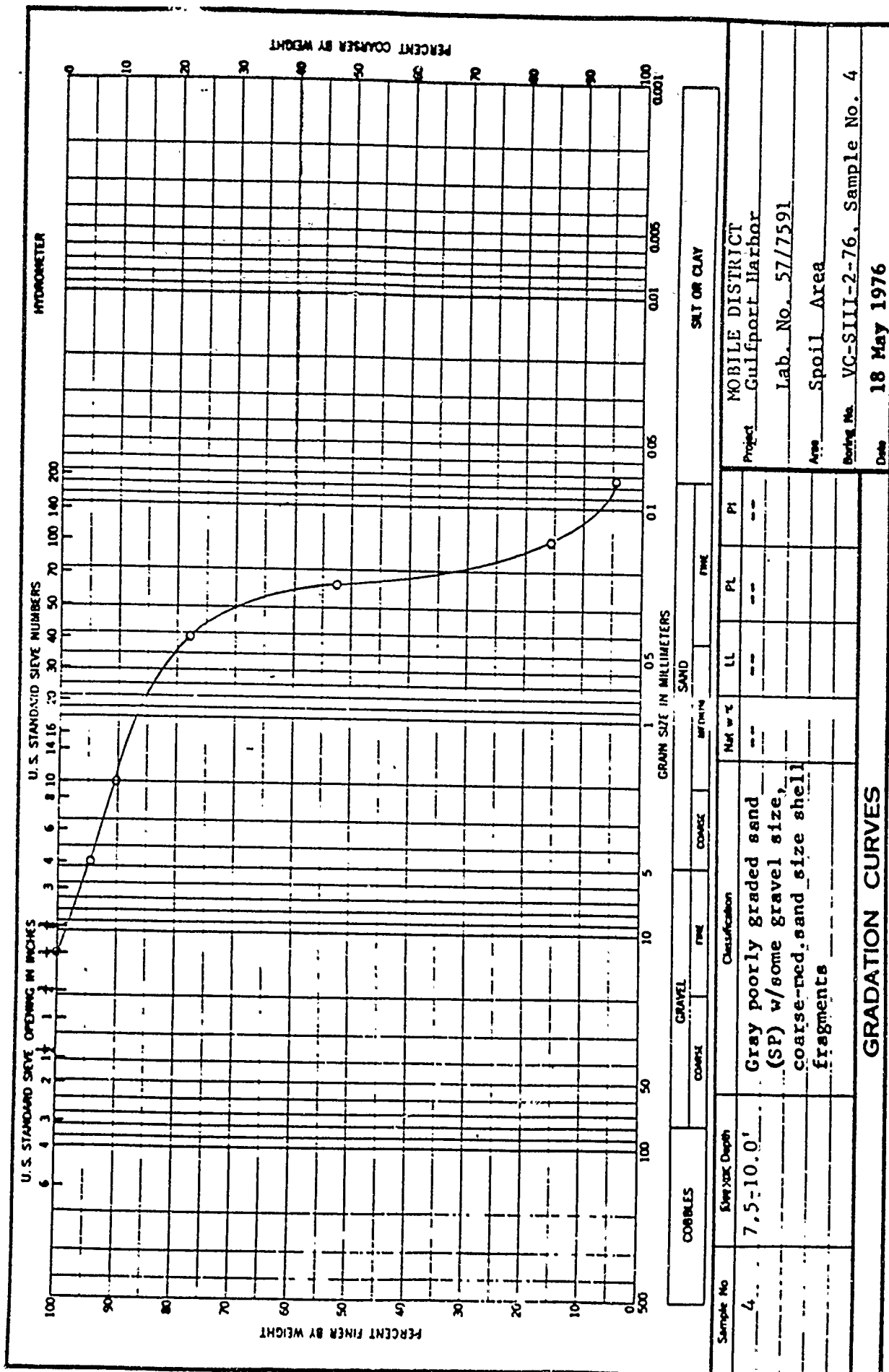
WORK ORDER NO. 9784
Req. No. 66-76-F & M



ENG FORM 2087
1 MAY 63

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30061

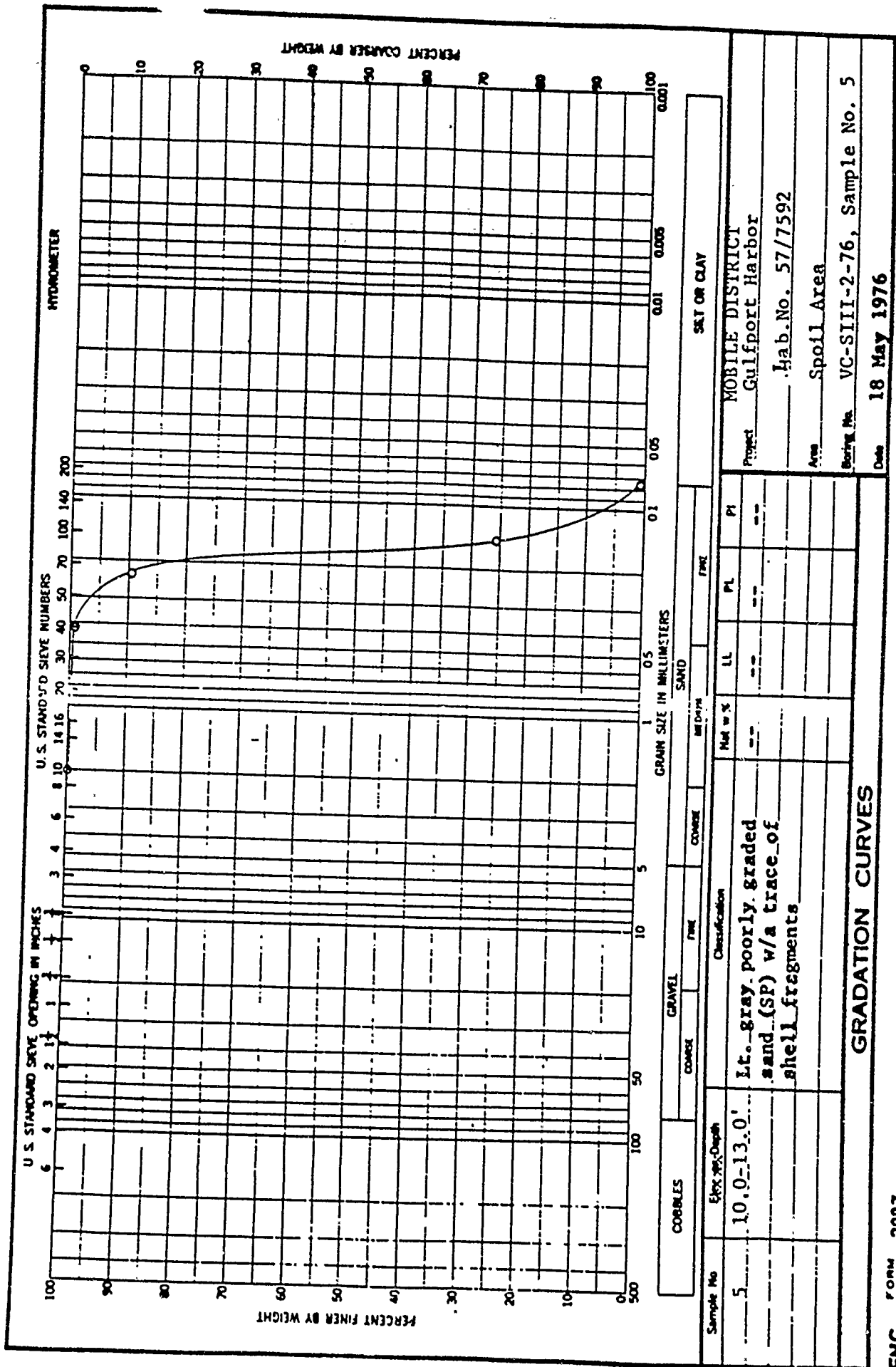
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ENG FORM 2087
1 MAY 63

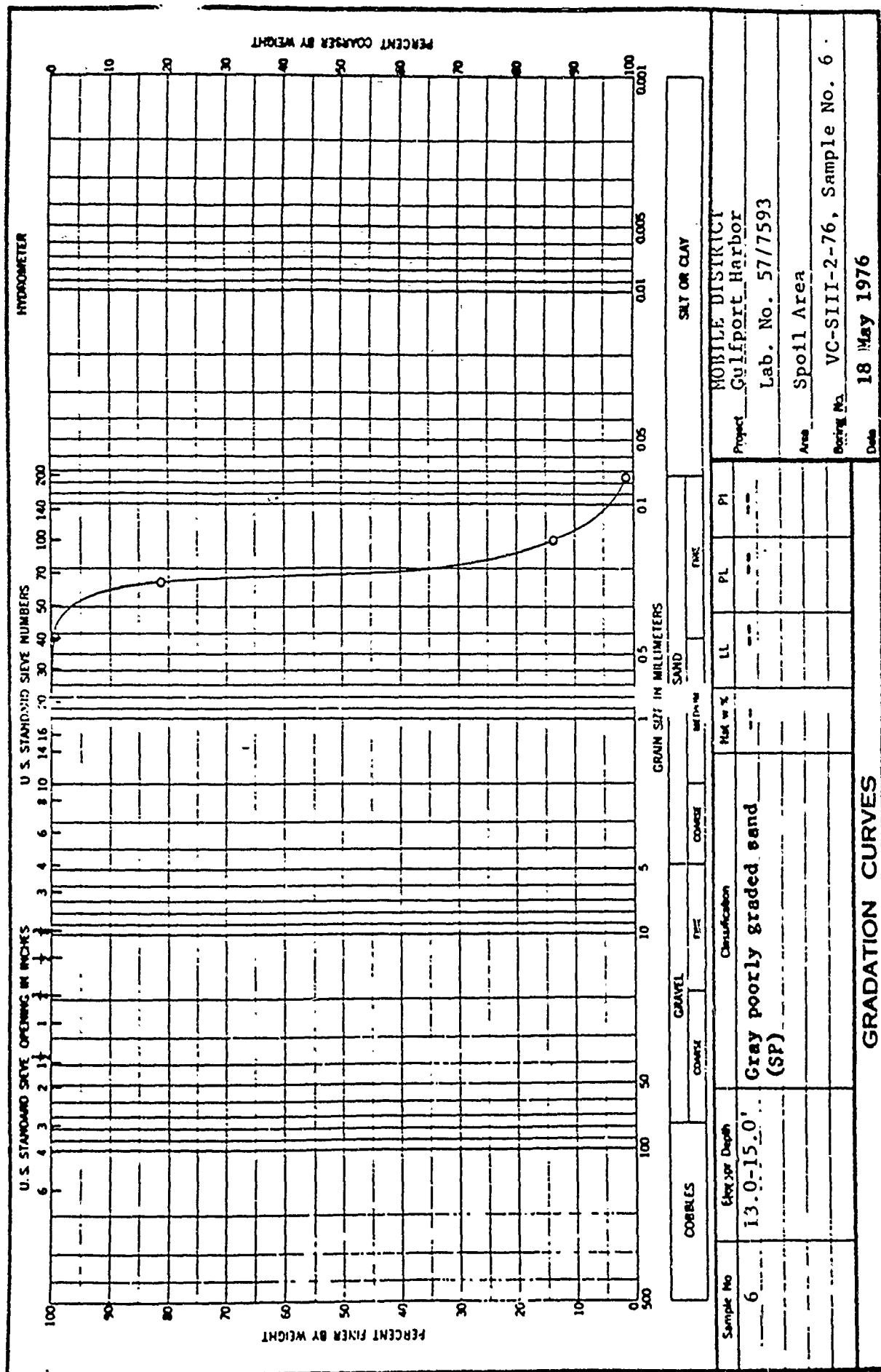
DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30061

WORK ORDER NO. 9784
Req. No. 66-76-E & M



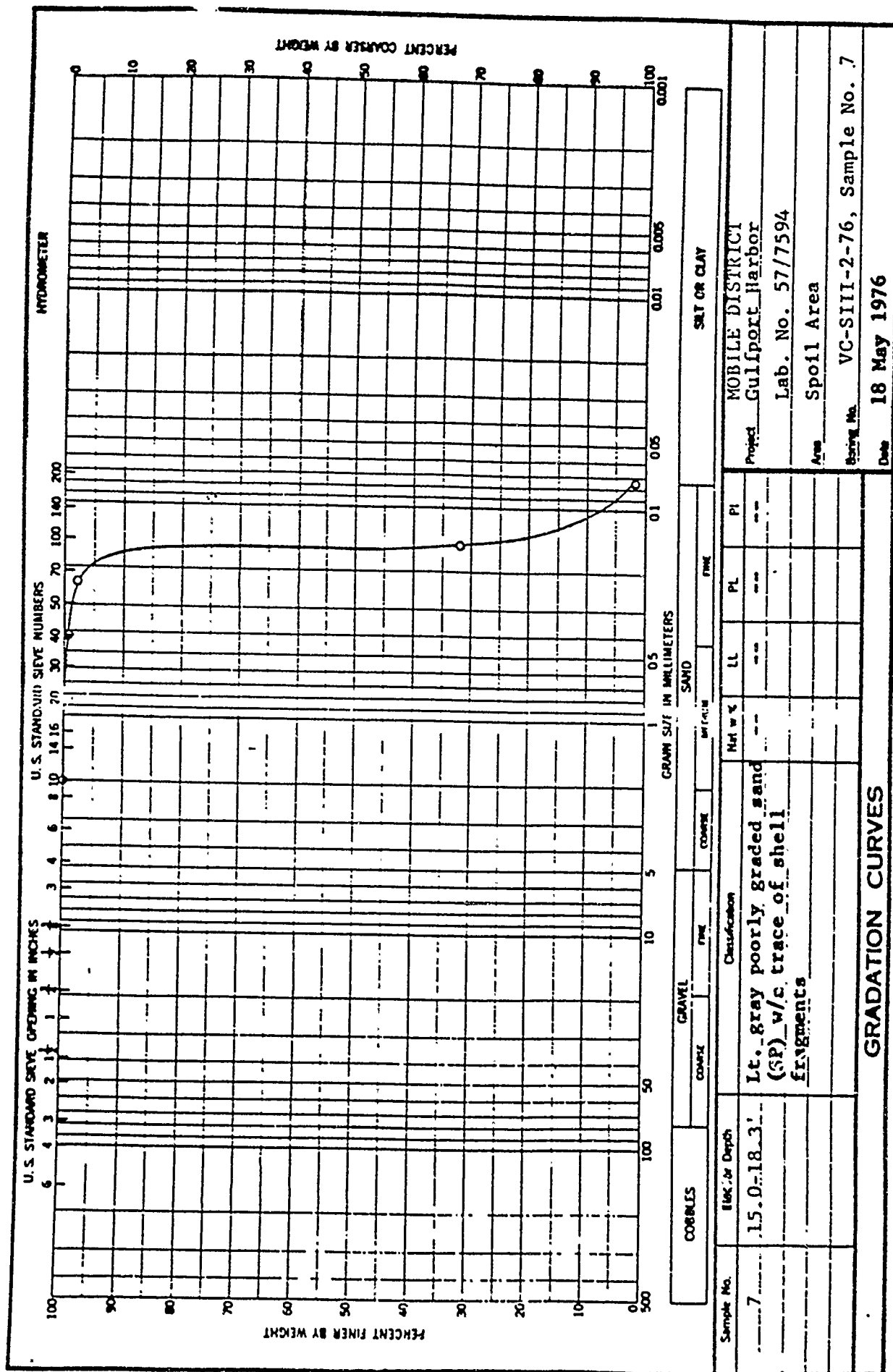
DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30061

WORK ORDER NO. 9784
Req. No. 66-76-F & M



ENG FORM 2087
-MAY 63

WORK ORDER NO. 9784
Req. No. 66-76-F & M



17 November 1987

PETROGRAPHIC REPORT
GULF PORT HARBOR, BORING GP-14-87, E. 38.3 FT.
U.S. ARMY ENGINEER DISTRICT, MOBILE

INTRODUCTION

1. The natural sand from Boring GP-14-87, E.38.3 ft., Gulf Port Harbor is a shelly, gray silica sand. The gray color is mainly a function of the shelly debris prominent in the larger sieve size fractions and also due to some clay in the sample. The constituents comprising the natural sand are listed in TABLE 1 (SAD FORM 3195). The percentage of each constituent appears under the individual sieve size fractions in the columns to the right. The sample weighted averages appear in the center column. A description of each constituent group comprising the sand appears below.

SAND COMPOSITION

Shell and Shelly Debris

2. Shell and shelly debris make up only two percent of the total sample. These are typically gray in color with only a few white or tan particles. The larger sizes, that is the No. 10-40 sieve sizes, contain relatively high percentages of these constituents. However, these fractions together only make up 7% of the sample, hence, the 2% weighted average. The shelly debris begins to decrease with decreasing sieve size but suprisingly the pan fraction (minus No. 200 size) contains about 10% of fragmental debris.

Skeletal Debris

3. Fragmented hard-parts or 'exoskeletal' constituents make up 4% of the natural sand. Examples of these type constituents include coral (?) fragments, fragmented sand dollars and other marine life. Most all of these have a dull tan color. Also included in this group are clear calcareous spicules (needle-like rods) which are found in the small (No.100 and below) sieve sizes.

Quartz

4. Fresh, hard, clear and translucent quartz particles make up the bulk of the sand constituents. These particles are 90% of the total sample. Particle shape is predominantly subangular in the larger sieve sizes, however, angular shapes are more typical in the smaller sieve size fractions. The bulk of the group are clear particles. A few well rounded frosted grains are present also.

All Others

5. Soft, gray clay lumps, heavy minerals, and mica make up the remaining 4% of the sand sample. The clay particles are particularly abundant in the No. 200 and pan fraction. They are 3% of the sand. The clay apparently did disaggregate when the sample was soaked and washed over the No.200 sieve during sample preparation.

6. A suite of miscellaneous heavy minerals (minerals with specific gravities greater than 2.65) are only 1% of the sample. These type particles are only

17 November 1987

significant in the No.200 and pan fractions. Traces (less than 1%) of muscovite mica was found in the minus No. 40 sieve size fractions.



RAY WILLINGHAM
Geologist

Attached
TABLE 1 (SAD Form 3195)

TABLE 1

U. S. ARMY ENGINEER DIVISION LABORATORY, SOUTH ATLANTIC CORPS OF ENGINEERS MARIETTA, GEORGIA AGGREGATE COMPOSITION AND CONDITION REPORT					DISTRICT Mobile							
					PROJECT Gulf Port Harbor							
					CONTRACT NO. --							
SOURCE GP-14-87			LAB. NO. 57/3534		DATE REPORTED 17 November 1987							
DATE RECEIVED 31 July 1987		REQ. NO. 42-87-F&M			WORK ORDER NO. 5327							
DESCRIPTION: Natural Sand Elevation 38.3 feet			Weighted Average (Percent)	SIEVE SIZE (% Retained)								
				#10	#20	#40	#60	#100	#200	Pan		
Sample Gradation				1	2	5	37	49	3	3		
Shells & Shell Fragments			2	18	18	9	2	Tr	4	10		
Skeletal Debris			4	82	75	11	1	1	3	15		
Quartz			90	-	7	78	96	98	74	20		
Clay Lumps (Tr. Org.)			3	-	-	2	1	Tr	15	50		
Heavy Minerals			1	-	-	-	Tr	1	4	5		
Mica			Tr	-	-	Tr	Tr	Tr	Tr	Tr		
CONDITION:												
Percent Flat and Elongated												
REMARKS: -Petrographic analysis based on examination of 300 particles whenever possible. -The percentages shown for the No. 200 and pan fraction are estimates based on microscopic examination. -The sand sample was washed prior to analysis.												
REPORTED BY:			<input type="checkbox"/> PHONE <input type="checkbox"/> WIRE		TESTED BY RW			CHECKED BY WLT				
DATE			SAMPLED BY									

17 November 1987

PETROGRAPHIC REPORT
GULF PORT HARBOR, JAR SAMPLE NO. 1, BORING GP-15-87
U.S. ARMY ENGINEER DISTRICT, MOBILE

INTRODUCTION

1. The natural sand in jar sample No. 1, Boring GP-15-87, Gulf Port Harbor is a whitish gray, shelly, silica sand. Shell and exoskeletal debris make up 100% of the Nos. 10 (2.0mm) and 20 (0.84mm) sieve sizes, however, these constituents make up less than 10% of the total sample. Quartz particles, on the other hand, are found in all sieve sizes and make up the bulk of the sample. The percentage of these constituents in the individual sieve sizes along with their weighted averages appear in TABLE 1 (SAD FORM 3195). A description of the constituents comprising the sand is given below.

SAND COMPOSITION

Shell and Skeletal Debris

2. Intact shells and shell fragments including a variety of fragmented exoskeletal debris occur predominantly in the plus No.40 (0.42mm) sieve sizes. Traces of this group also appear in the smaller sizes. This group appears to be abundant in the sand but actually makes up only 6% of the sample. The shelly constituents are tan to dark gray and make up about 25% of the whole group. The fragmented hard-parts or exoskeletal constituents are typically tan and include a variety of marine life. The most abundant appears to be fragmented sand dollars. A few clear, calcareous needle-like spicules are also included in this group.

17 November 1987

Quartz

3. Quartz particles occur in abundance. This group makes up 94% of the natural sand. Beginning with the No.40 (0.42mm) sieve size, quartz particles are subround to subangular in shape. With decreasing size, these become more angular and irregular in shape. Typical particles comprising the quartz group are clear and glassy (about 60%), while the rest are primarily translucent. Well rounded frosted grains are present, but are not abundant.

All Others

4. Heavy minerals (minerals with specific gravities > 2.65), and soft weathered particles make up less than 1% of the sand. Of this group, the heavy mineral suite is significant. These make up 4% of the No. 200 sieve size fraction but are essentially absent in the larger size fractions. Tourmaline, sphene, epidote and amphibole are examples of the heavy mineral suite.

Attached
TABLE 1 (SAD Form 3195)

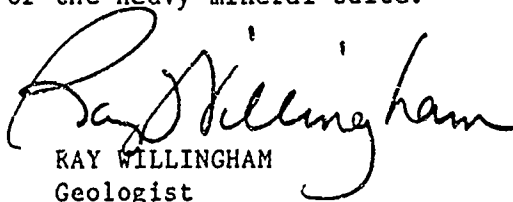

RAY WILLINGHAM
Geologist

TABLE 1

U. S. ARMY ENGINEER DIVISION LABORATORY, SOUTH ATLANTIC CORPS OF ENGINEERS MARIETTA, GEORGIA AGGREGATE COMPOSITION AND CONDITION REPORT				DISTRICT Mobile								
				PROJECT Gulf Port Harbor								
				CONTRACT NO. --								
SOURCE GP-15-87, Jar Sample No. 1			LAB. NO. 57/3538		DATE REPORTED 17 November 1987							
DATE RECEIVED 31 July 1987		REQ. NO. 42-87-F&M			WORK ORDER NO. 5327							
DESCRIPTION: Natural Sand			Weighted Average (Percent)	SIEVE SIZE (% Retained)								
				#10	#20	#40	#60	#100	#200	Pan		
Sample Gradation				1	2	11	50	30	5	1		
Shell & Skeletal Debris			6	100	100	8	3	2	1	-		
Quartz			94	-	Tr	92	97	98	95	-		
Heavy Minerals			Tr	-	-	-	Tr	Tr	4	-		
Other (Soft, Wea.)			Tr	-	-	-	Tr	Tr	-	-		
CONDITION:												
Percent Flat and Elongated												
REMARKS: Petrographic analysis based on examination of 300 particles whenever possible. The sand sample was washed prior to analysis.												
REPORTED BY:				<input type="checkbox"/> PHONE <input type="checkbox"/> WIRE		TESTED BY RW		CHECKED BY WLT				
DATE				SAMPLER BY								

LAYOUT OF BORINGS



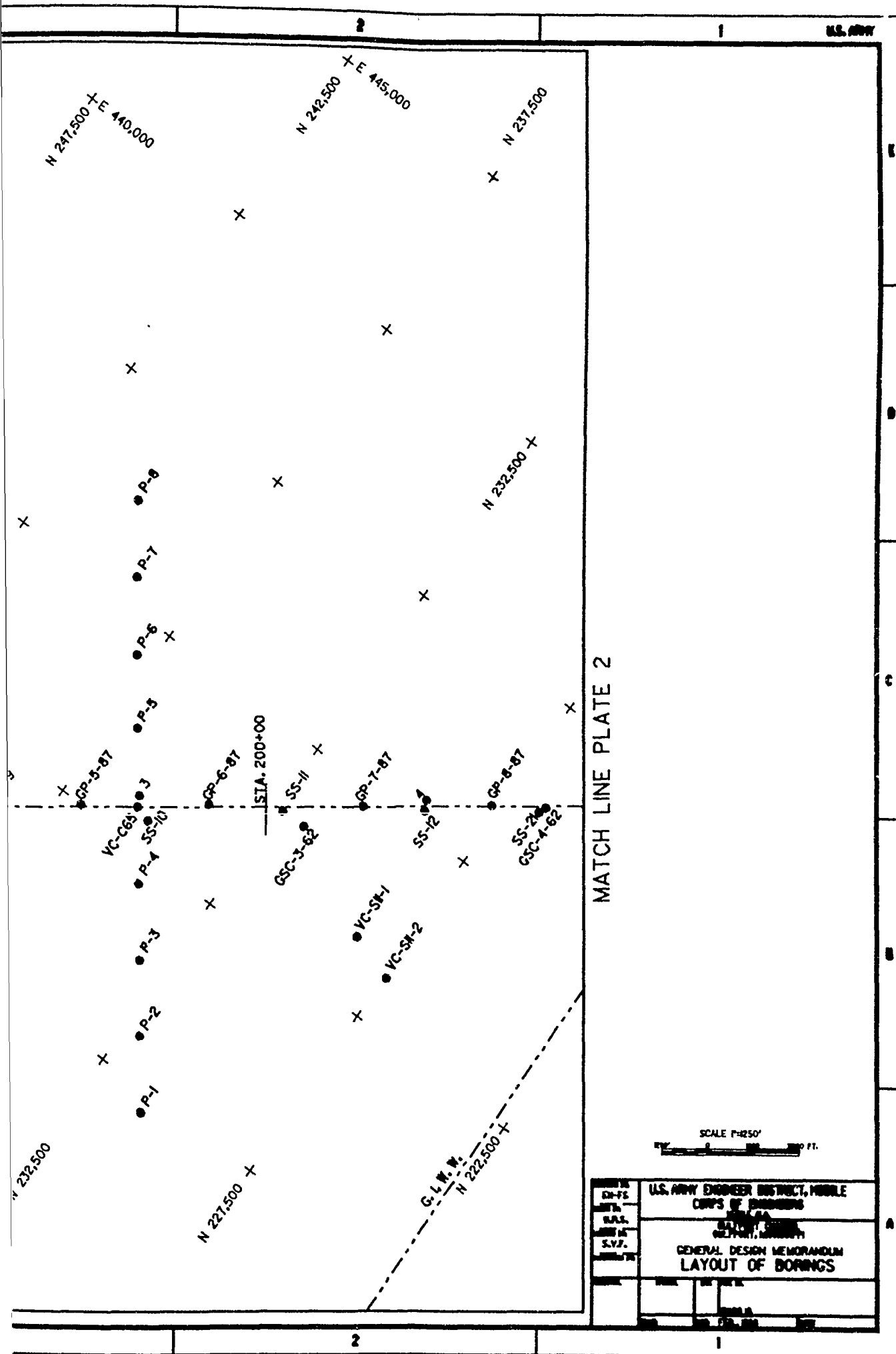
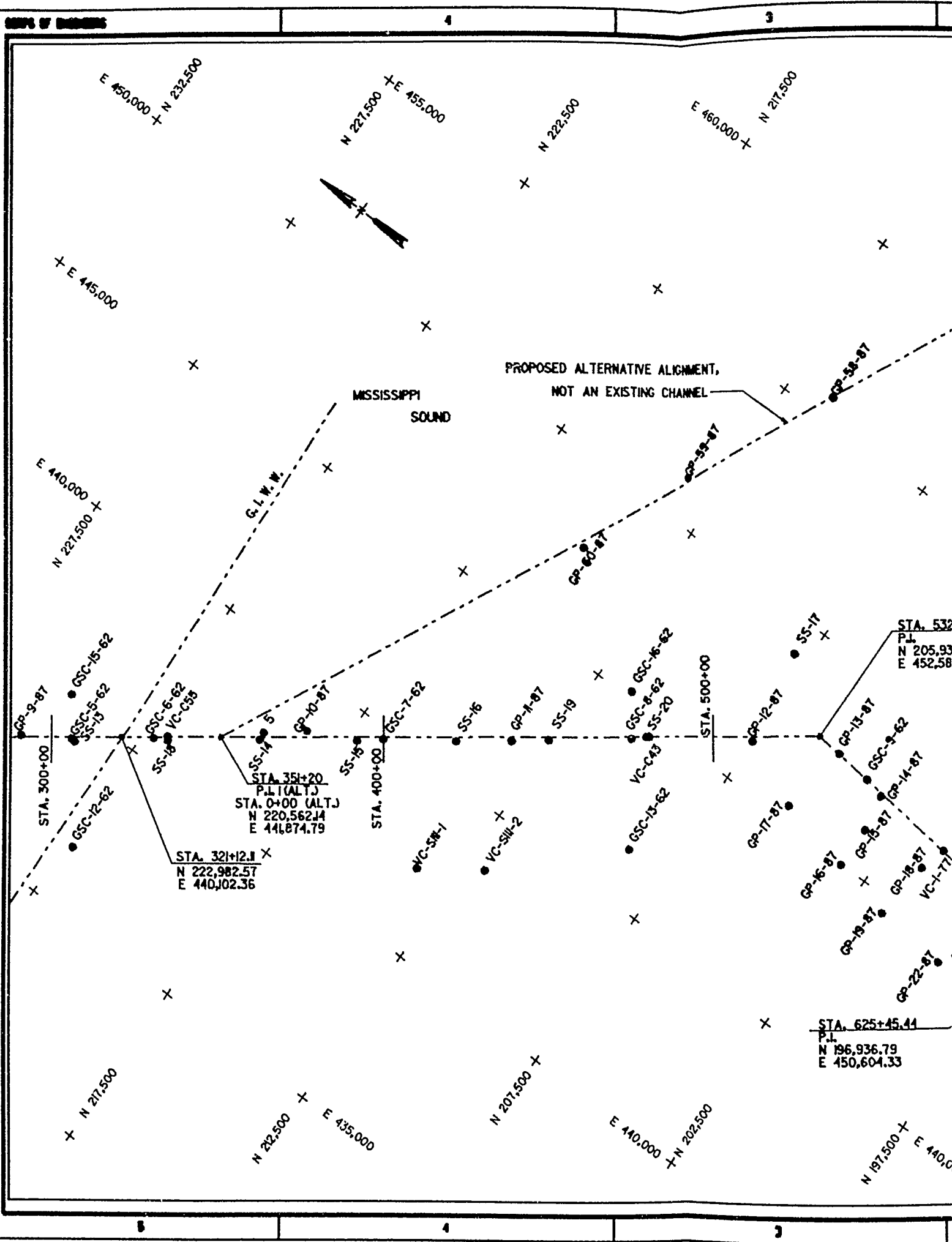
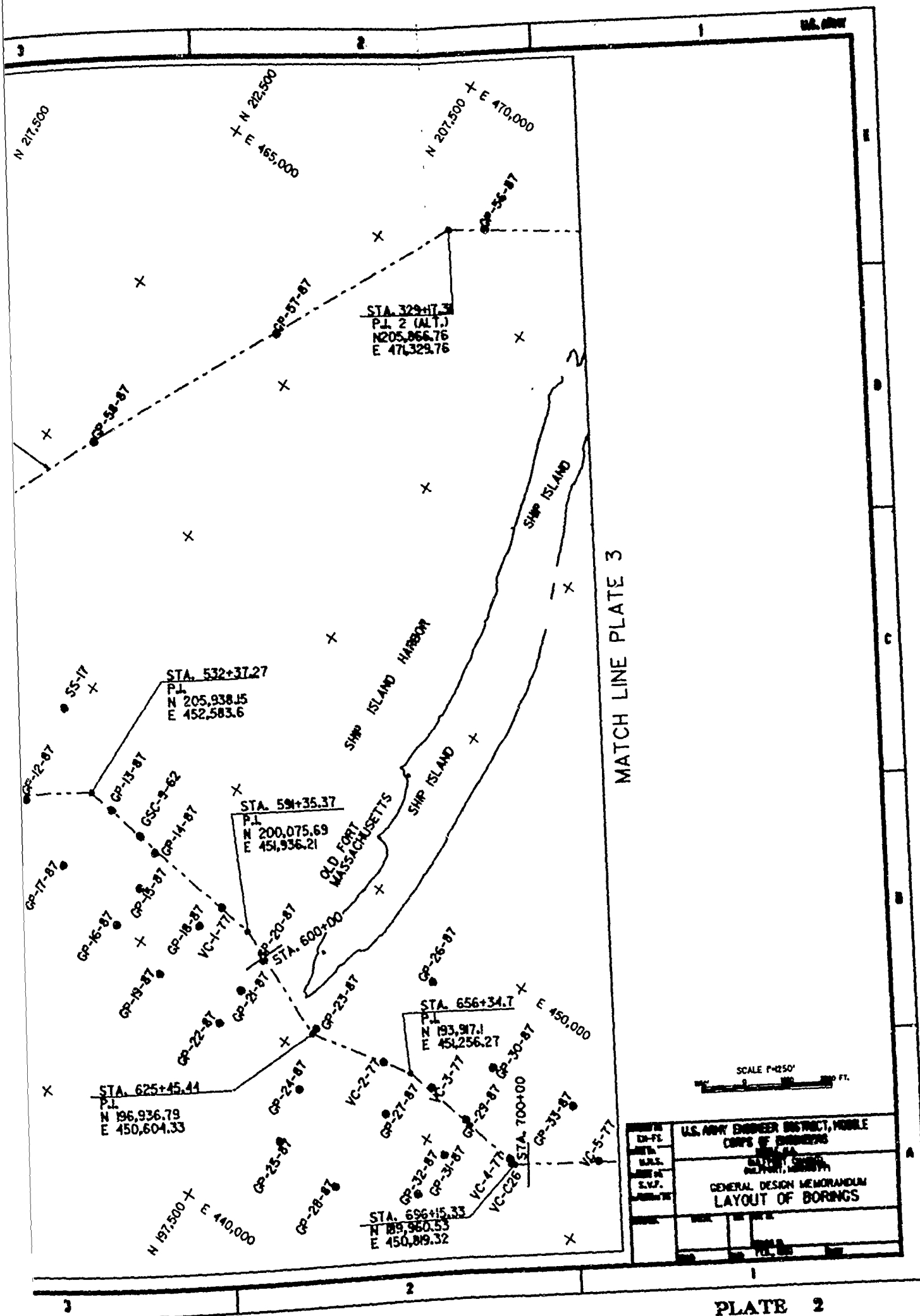
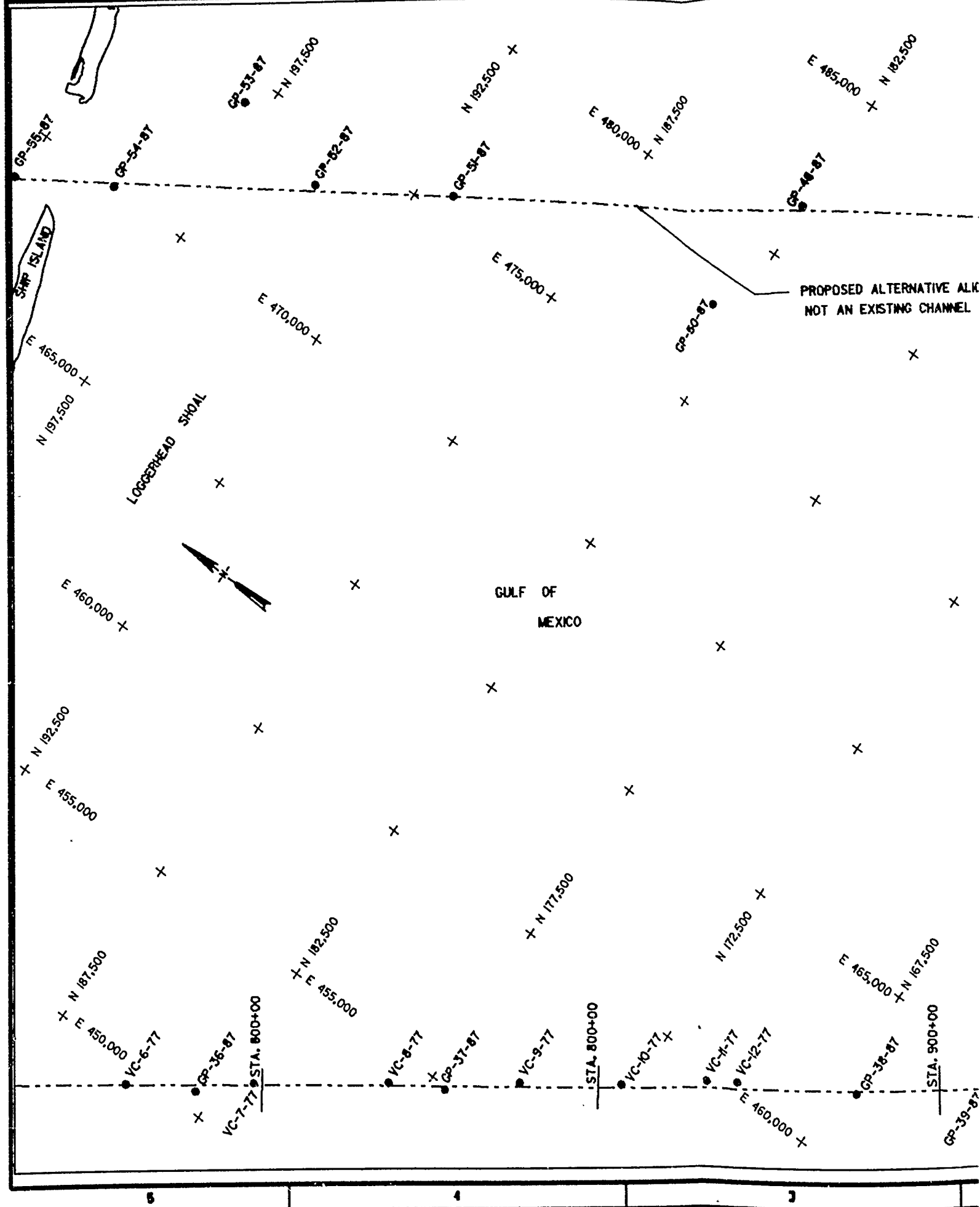


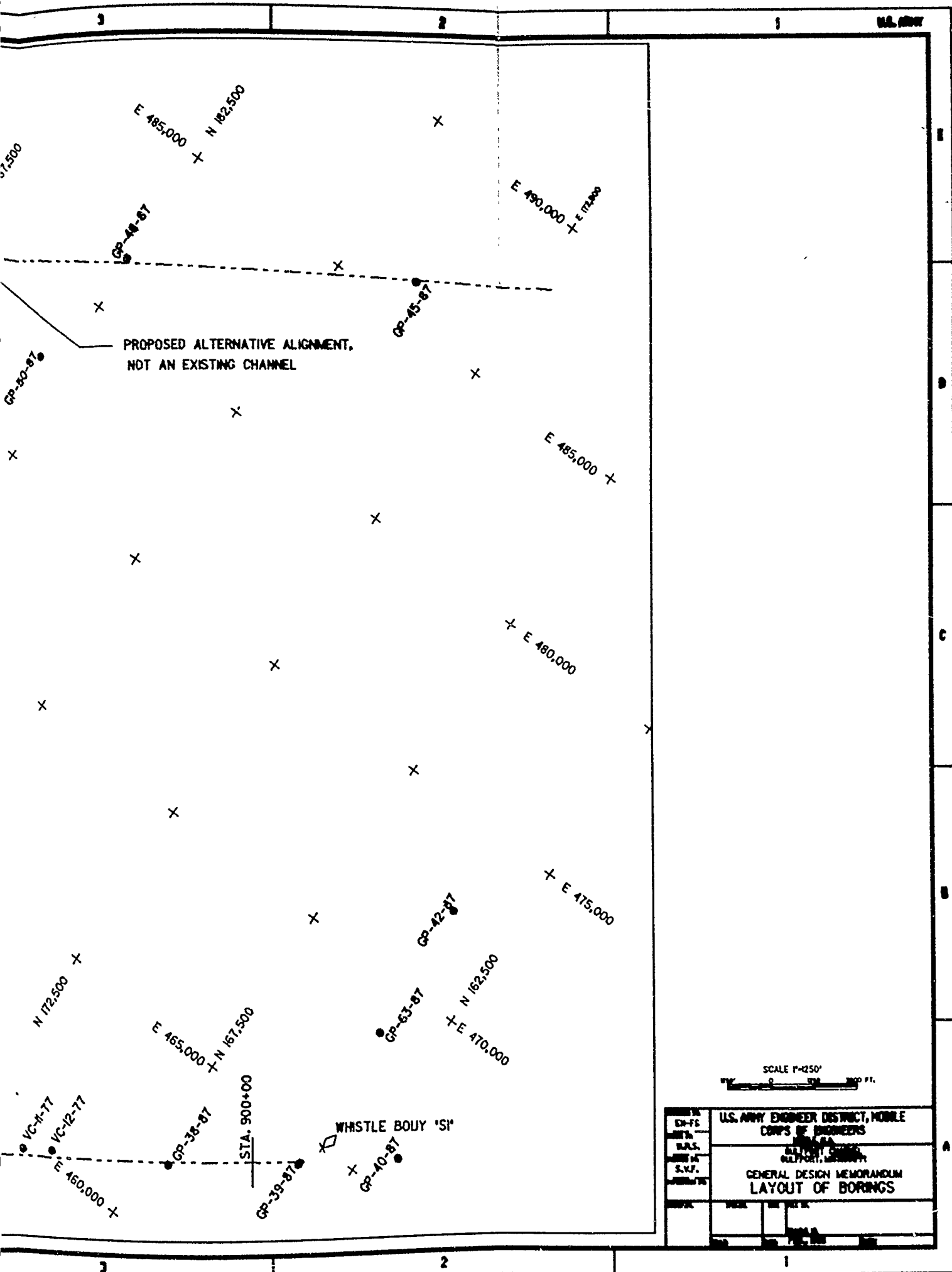
PLATE 1

MATCH LINE PLATE I

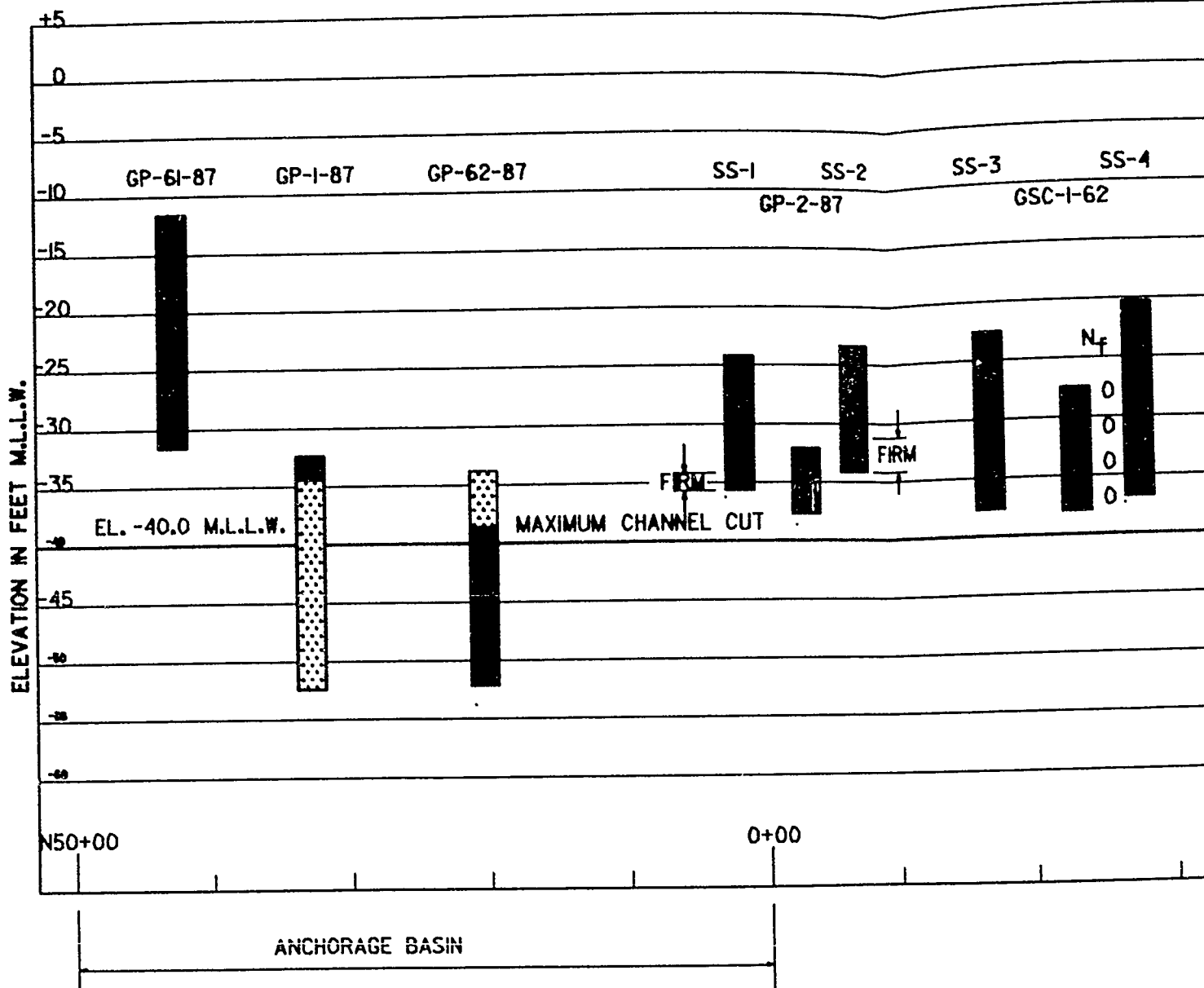








SOIL PROFILES



LEGEND

- CH ORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
- HP POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES
- SM SILTY SANDS, SAND-SILT MIXTURES
- SC CLAYEY SANDS, SAND-CLAY MIXTURES

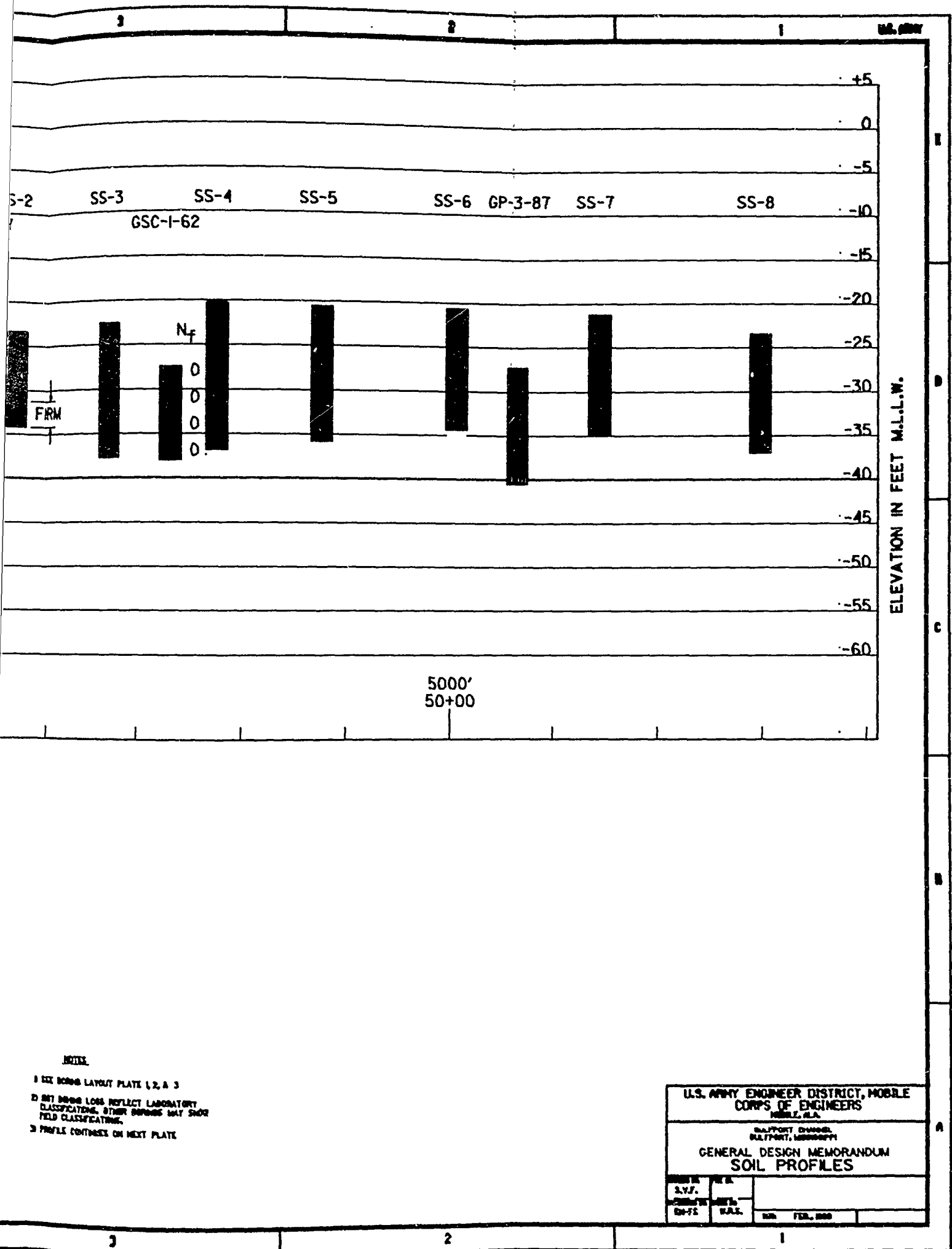
- ML ORGANIC SILTS AND VERY FINE SANDS, PACK FLOWS, SANDY SILTS OR CLAYEY SILTS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
- CL ORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS

N₆₀ - BLOW PER FOOT ARE DETERMINED WITH A STANDARD SPLIT SPIN SAMPLER CLYS. 14. 2" DIA. AND A 140 LB. DRIVEN HAMMER WITH A 30" DROP.

- OL ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY
- OH ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS

NOTES

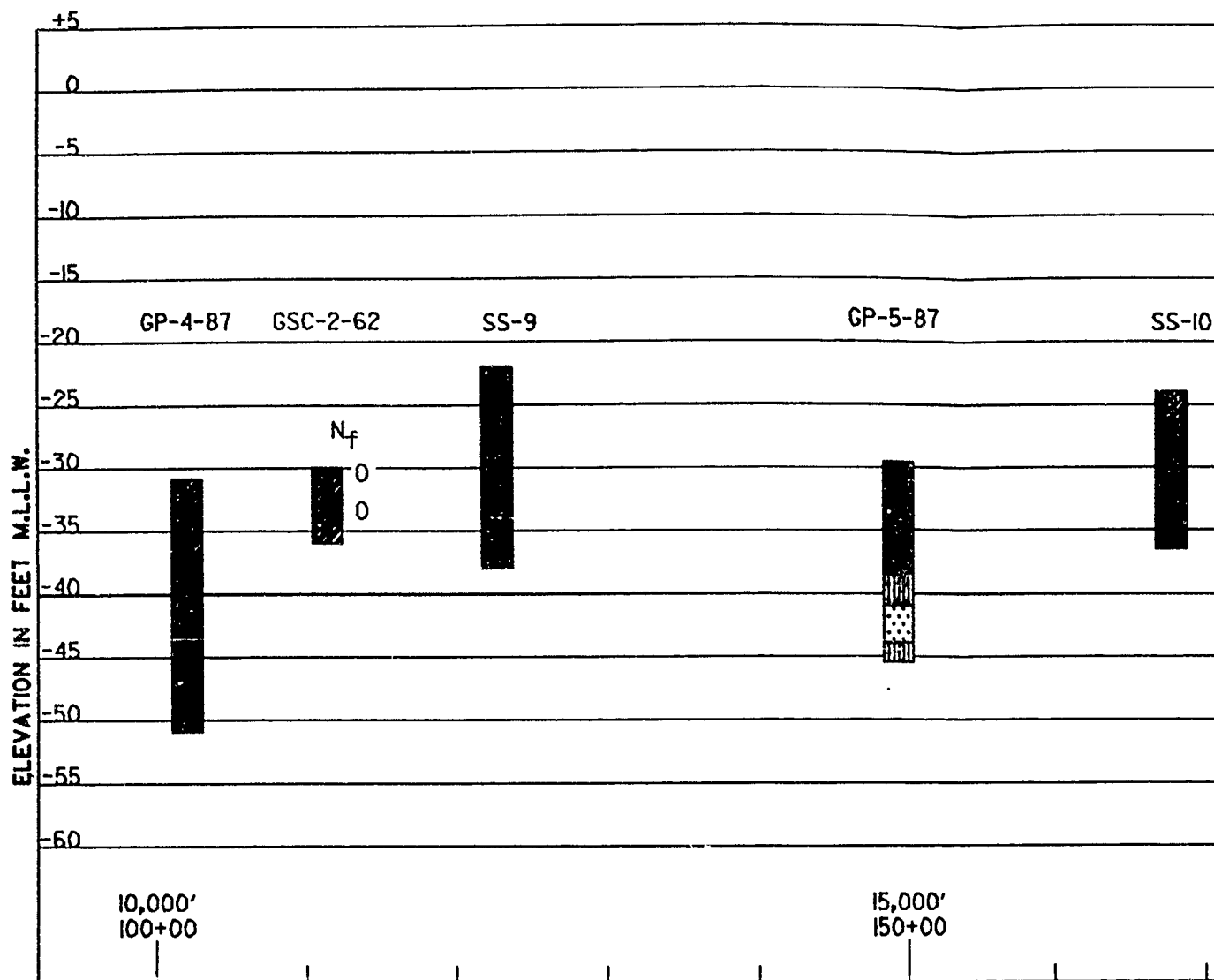
- 1 SEE BORING LAYOUT PLATE 1, 2, & 3
- 2 1987 BORING LOGS REFLECT LABORATORY CLASSIFICATIONS. OTHER BORINGS MAY SHOW FIELD CLASSIFICATIONS.
- 3 PROFILE CONTINUES ON NEXT PLATE



NOTES

- 1 SEE BORING LAYOUT PLATE (2, A 3)
- 2 SEE BORING LOGS REFLECT LABORATORY CLASSIFICATIONS, OTHER BORINGS MAY SHOW FIELD CLASSIFICATIONS.
- 3 PROFILE CONTINUES ON NEXT PLATE

U.S. ARMY ENGINEER DISTRICT, MOBILE CORPS OF ENGINEERS MOBILE, ALA.			
RAILPORT, DUGGAL RAILPORT, MISSISSIPPI			
GENERAL DESIGN MEMORANDUM SOIL PROFILES			
DESIGN S.V.F.	DATE OCT-75	BY S.A.C.	NO. FEB. 1980



LEGEND

- CH ORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
- SP POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINE
- SM SILTY SANDS, SAND-SILT MIXTURES
- SC CLAYEY SANDS, SAND-CLAY MIXTURES

- ML ORGANIC SILTS AND VERY FINE SANDS, SILTY FLOES, SILTY SILTS OR CLAYEY SILTS OR CLAYEY SILTS WITH SLIGHT PLASTICITY

- CL ORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, MUDY CLAYS, SILTY CLAYS, LEAN CLAYS

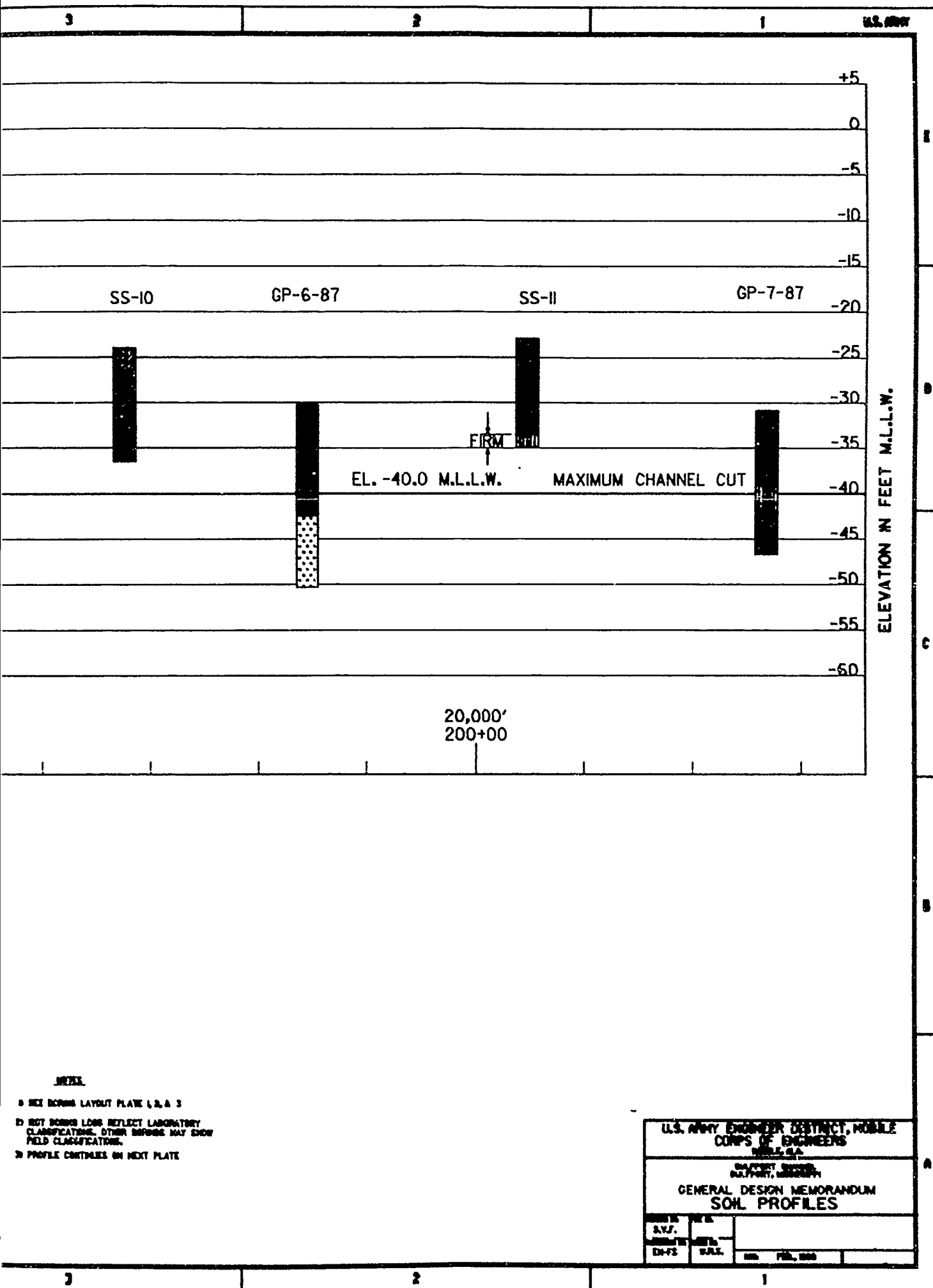
N_f - BLOWS PER FOOT ARE DETERMINED WITH A STANDARD SPLIT SPAN SAMPLER CLAYEY SANDS AND 4 IN. 10 IN. DIAMETER WITH A 30° DRIVE.

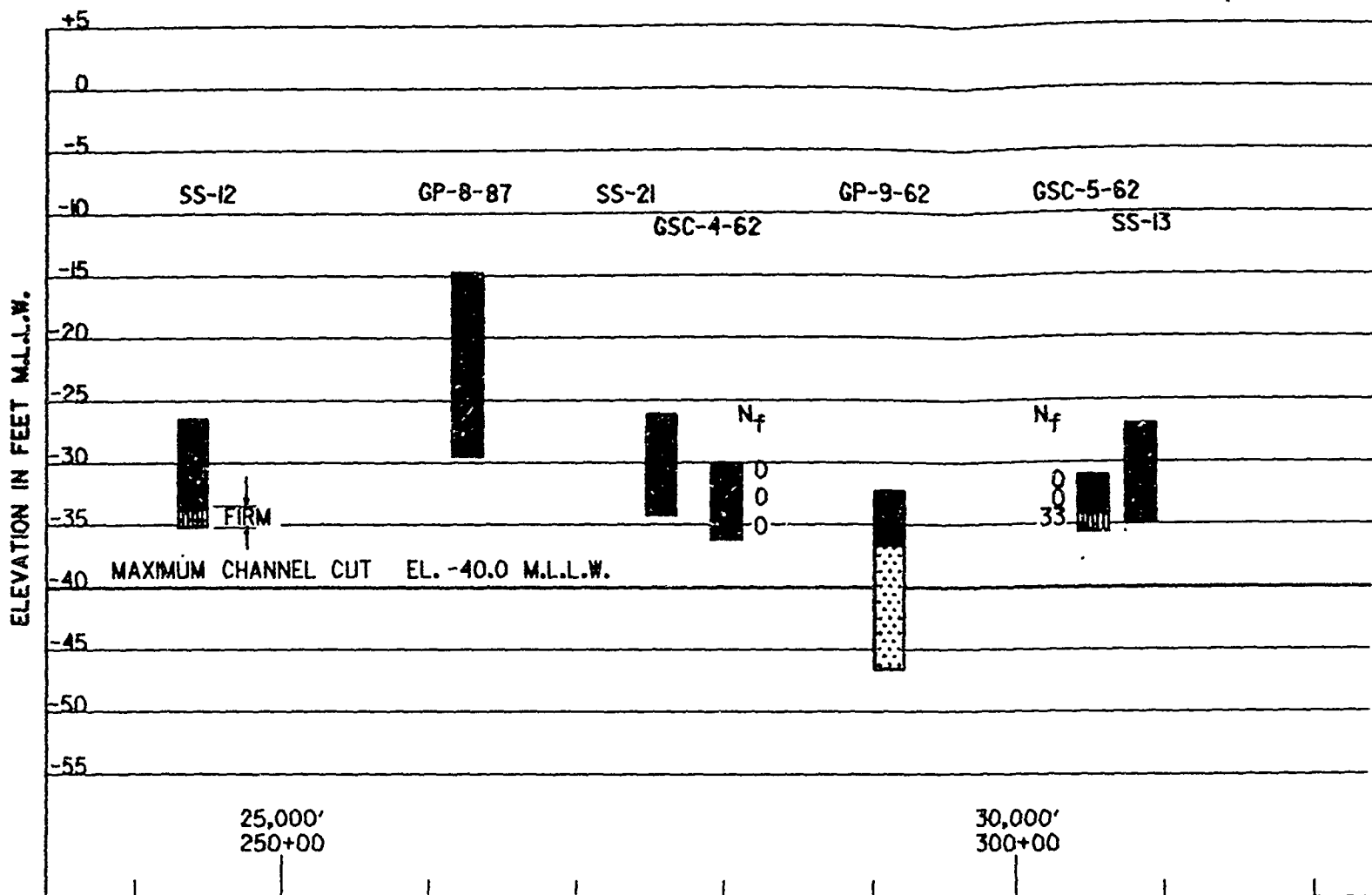
- OL ORGANIC SILTS AND ORGANIC SILT-CLAYEY LOW PLASTICITY

- OH ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS

NOTES

- 1 SEE BORING LAYOUT PLATE 1, 2, & 3
- 2) BBT BORING LOGS REFLECT LABORATORY CLASSIFICATIONS. OTHER BORINGS MAY HAVE FIELD CLASSIFICATIONS.
- 3) PROFILE CONTINUES ON NEXT PLATE



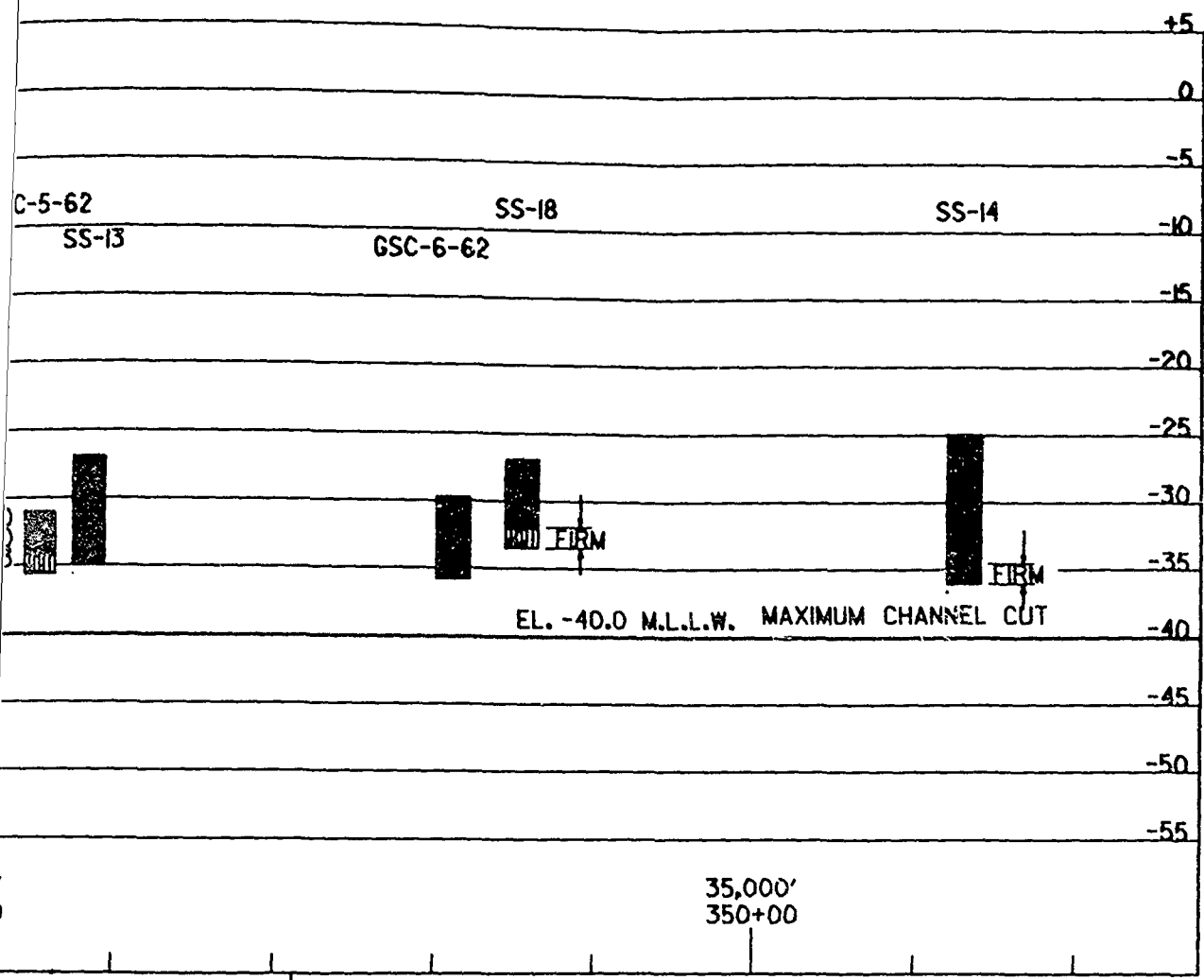


LEGEND

- | | | | | | |
|----|---|----|---|----|---|
| CH | ORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS | ML | ORGANIC SILTS AND VERY FINE SANDS, ROCK FLOES, SANDY SILTS OR CLAYEY SILTS OR CLAYEY SILTS WITH SLIGHT PLASTICITY | OL | ORGANIC SILTS AND ORGANIC SILT-CLAY OF LOW PLASTICITY |
| SP | POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES | CL | ORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS | CH | ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS |
| SM | SILTY SANDS, SAND-SILT MIXTURES | | | | |
| SC | CLAYEY SANDS, SAND-CLAY MIXTURES | | | | |
- N_f - BLOWS PER FOOT ARE DETERMINED WITH A STANDARD SPIT (SPON) SAMPLER (CL-7) 10.2" O.D. AND A 140 LB. DRIVING HAMMER WITH A 30" DROP.

NOTES

1. SEE BORING LAYOUT PLATE 1, 2, & 3
2. BENT BORING LOGS REFLECT LABORATORY CLASSIFICATION. OTHER BORINGS MAY SHOW FIELD CLASSIFICATIONS.
3. PROFILE CONTINUES ON NEXT PLATE

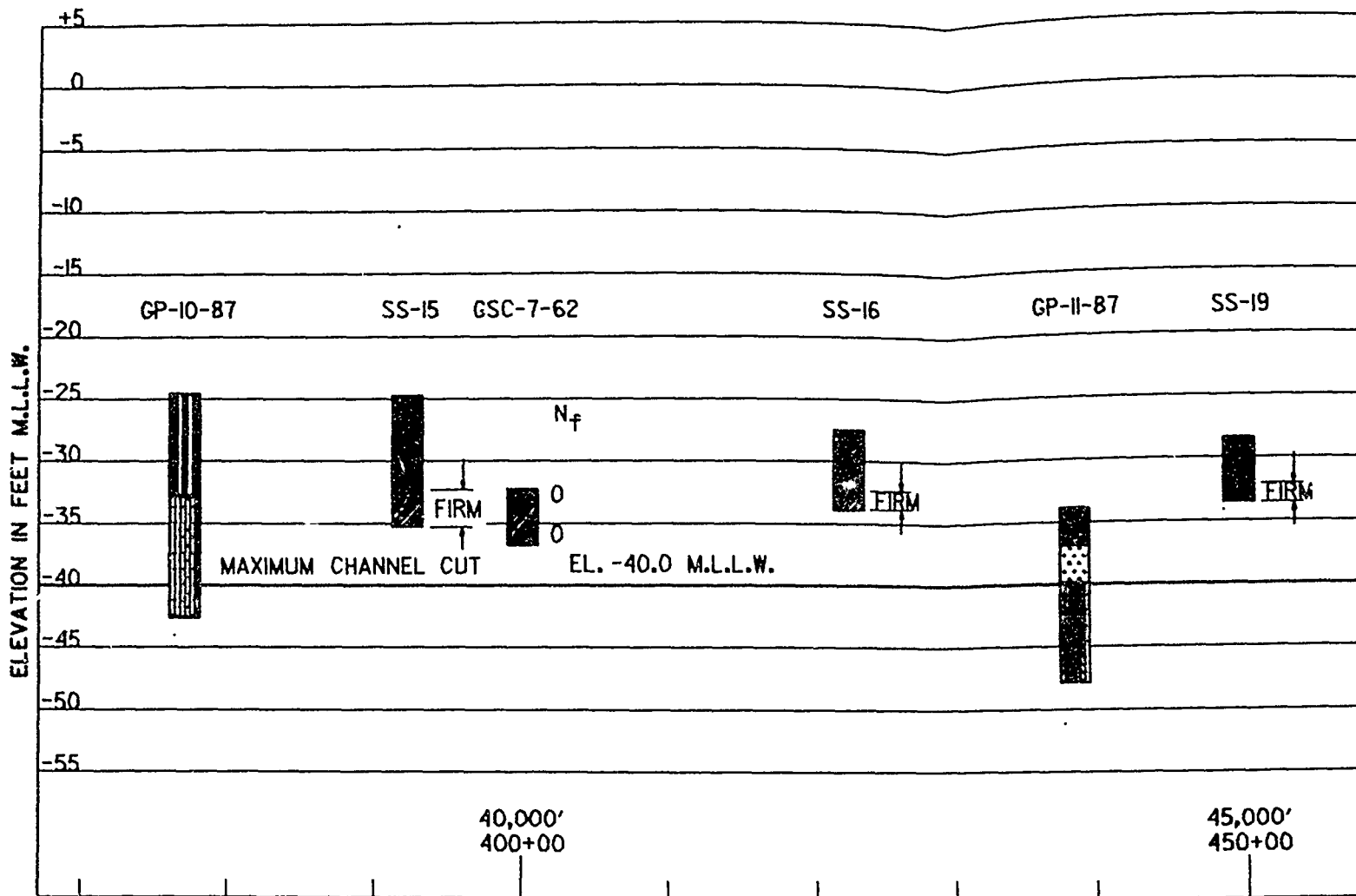


ELEVATION IN FEET M.L.L.W.

GULF INTRACOASTAL
WATERWAY

LAYOUT PLATE 1, 2, & 3
 LINES REFLECT LABORATORY
 TESTS. OTHER SYMBOLS MAY SHOW
 FIELD DATA.
 DETAILS ON NEXT PLATE

U.S. ARMY ENGINEER DISTRICT, MOBILE			
CORPS OF ENGINEERS			
MOBILE, ALA.			
SUPPORT COMMAND			
PULFORD, MISSISSIPPI			
GENERAL DESIGN MEMORANDUM			
SOIL PROFILES			
DATE	BY	NO.	FILE NO.
10-1-60	J.R.S.	100	100



LEGEND

- OH ORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
- SP POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINE
- SE SILTY SAND, SAND-SILT MIXTURES
- SC CLAYEY SANDS, SAND-CLAY MIXTURES

- M ORGANIC SILTS AND VERY FINE GRAINED ROCK FLOES, SANDY SILTS OR CLAYEY SILTS OR CLAYEY SILTS WITH SLIGHT PLASTICITY

- CL ORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS

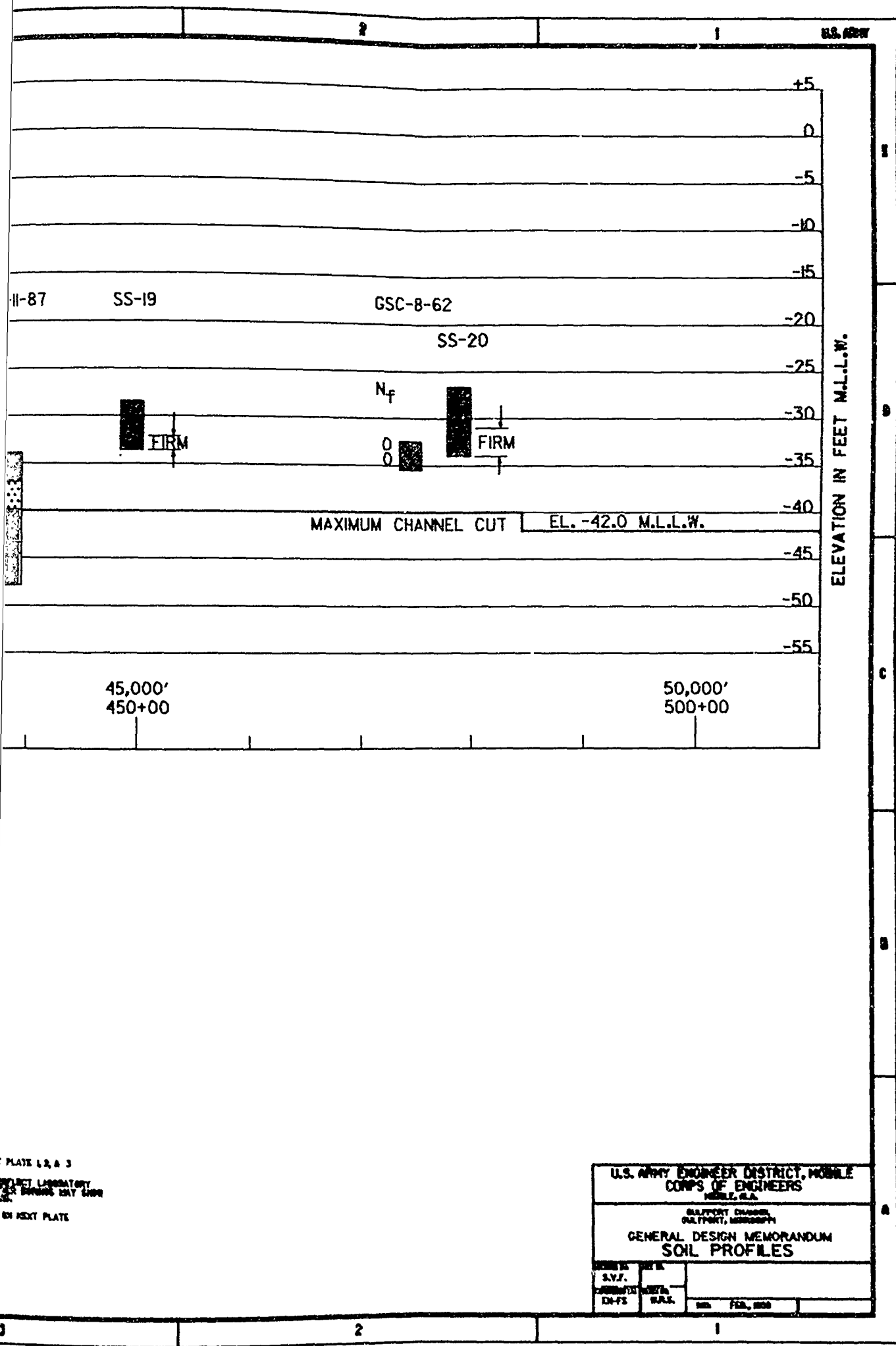
- Nf - IN THIS TEST FOOT ARE DETERMINED WITH A STANDARD SPLIT SPIN SAMPLER OR CLAYEY SILT AND A 140 LB. DRIVE HAMMER WITH A 30" DROP.

- OL ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY

- OH ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS

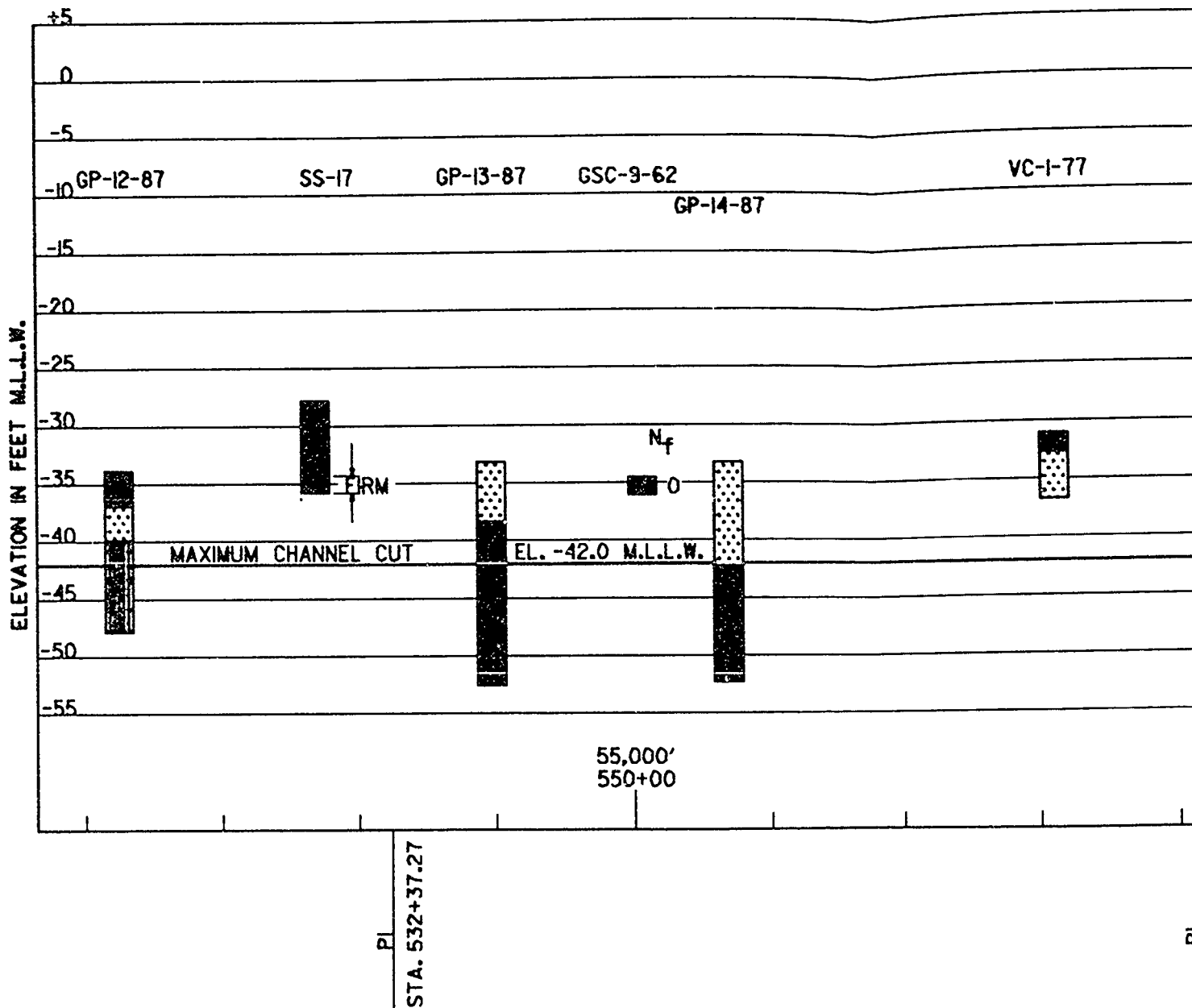
NOTES

- 1 SEE BEARING LAYOUT PLATE 1, 2, & 3
- 2 TEST BEARING LOGS INDICATE LABORATORY CLASSIFICATION. FIELD BEARING LOGS MAY SHOW FIELD CLASSIFICATION.
- 3 PROFILE CONTINUES ON NEXT PLATE



AT PLATE 1, 2, & 3
 DISTRICT LABORATORY
 FOR SOILS AND ROCK
 1 ON NEXT PLATE

U.S. ARMY ENGINEER DISTRICT, MOBILE			
CORPS OF ENGINEERS			
MOBILE, ALA.			
SUPPORT CHARGE			
CALIFORNIA, MISSISSIPPI			
GENERAL DESIGN MEMORANDUM			
SOIL PROFILES			
DESIGNED BY	DATE		
S.V.F.			
APPROVED BY	DATE		
EN-PS	W.A.S.		
		REV.	FEB., 1950

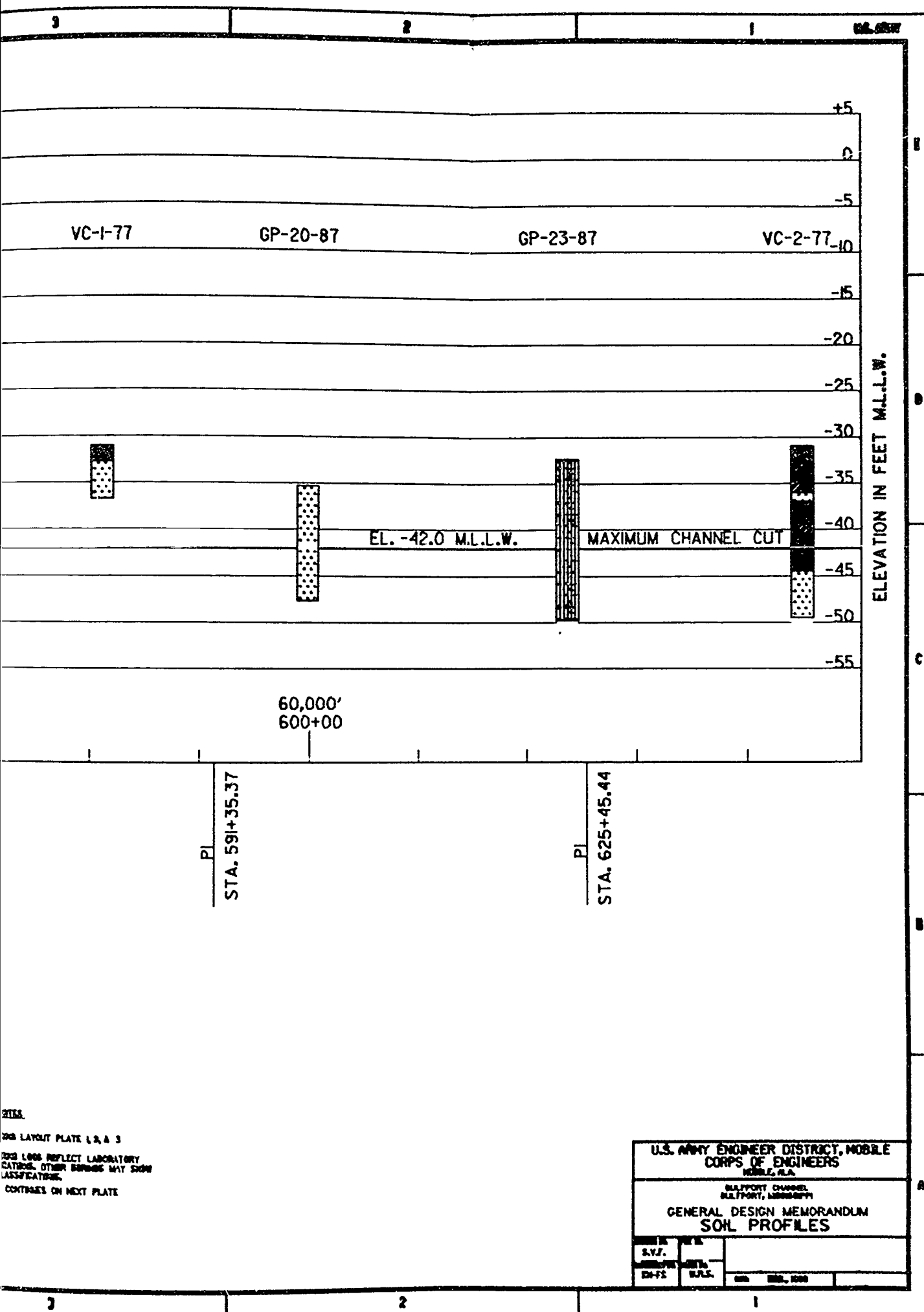


- LEGEND**
- CH ORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
 - SP POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES
 - SC CLAYEY SANDS, SAND-CLAY MIXTURES

- ML ORGANIC SILTS AND VERY FINE SANDS, MUCK, FLOES, SANDY SILTS OR CLAYEY SILTS ON CLAYEY SILTS WITH SLIGHT PLASTICITY
- CL ORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAM CLAYS
- N_f - BLOW PER FOOT ARE DETERMINED WITH A 2" (50MM) SPLIT SPONGE SAMPLER (CL. 10, 1" DIA.) AND A 140 LB. DRIVE HAMMER WITH A 30" DROP.

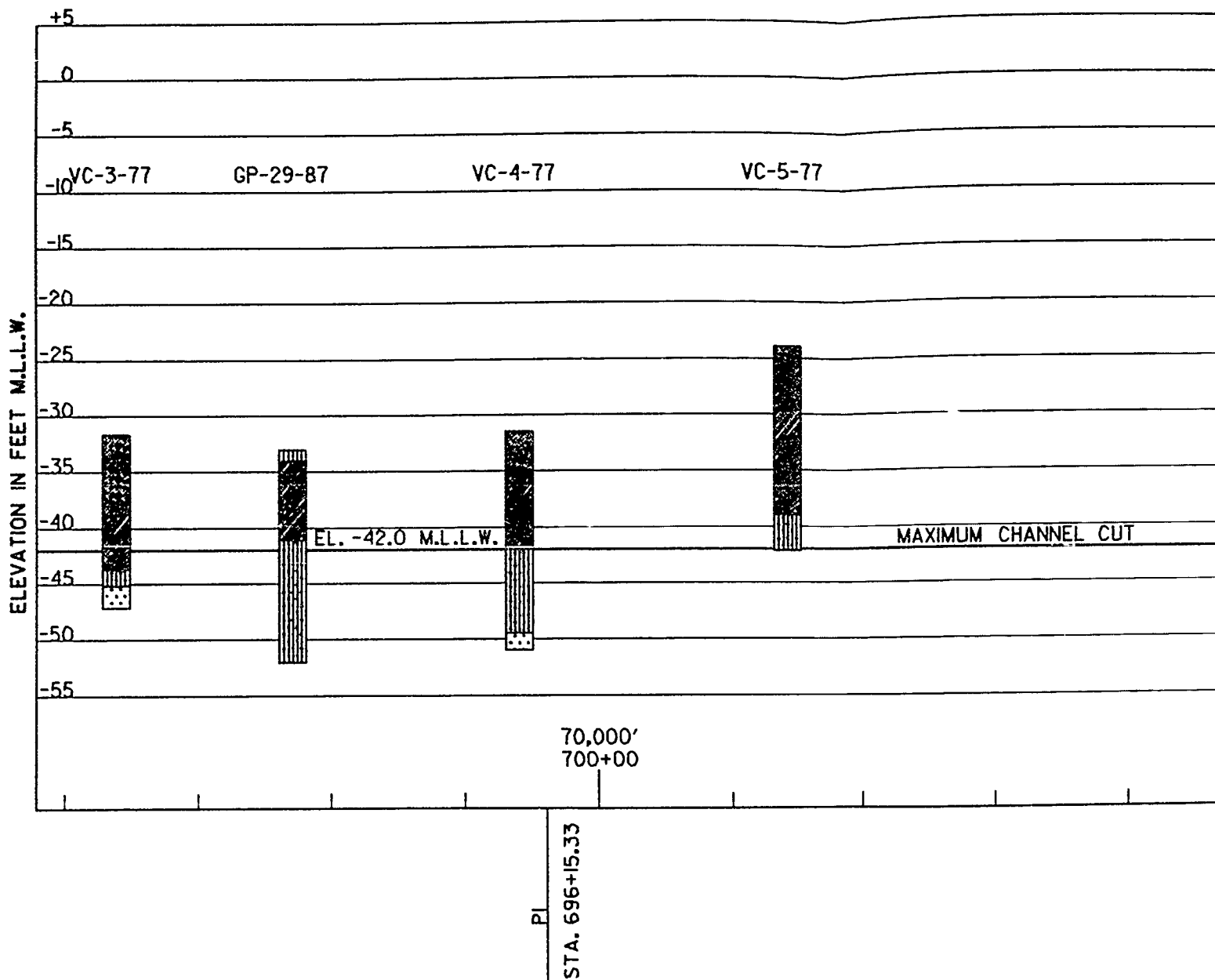
- BL ORGANIC SILTS AND ORGANIC SILT-CLAY OF LOW PLASTICITY
- CH ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS

- NOTES**
- 1 SEE BORING LAYOUT PLATE 1, 2, & 3
 - 2 BGT BORING LOGS REFLECT LABORATORY CLASSIFICATIONS. OTHER BORINGS MAY SHOW FIELD CLASSIFICATIONS.
 - 3 PROFILE CONTINUES ON NEXT PLATE



2113.
 SEE LAYOUT PLATE 1, 2, & 3
 THIS LOGS REFLECT LABORATORY
 CLASSIFICATION. OTHER BUREAU MAY SHOW
 CLASSIFICATION.
 CONTINUES ON NEXT PLATE

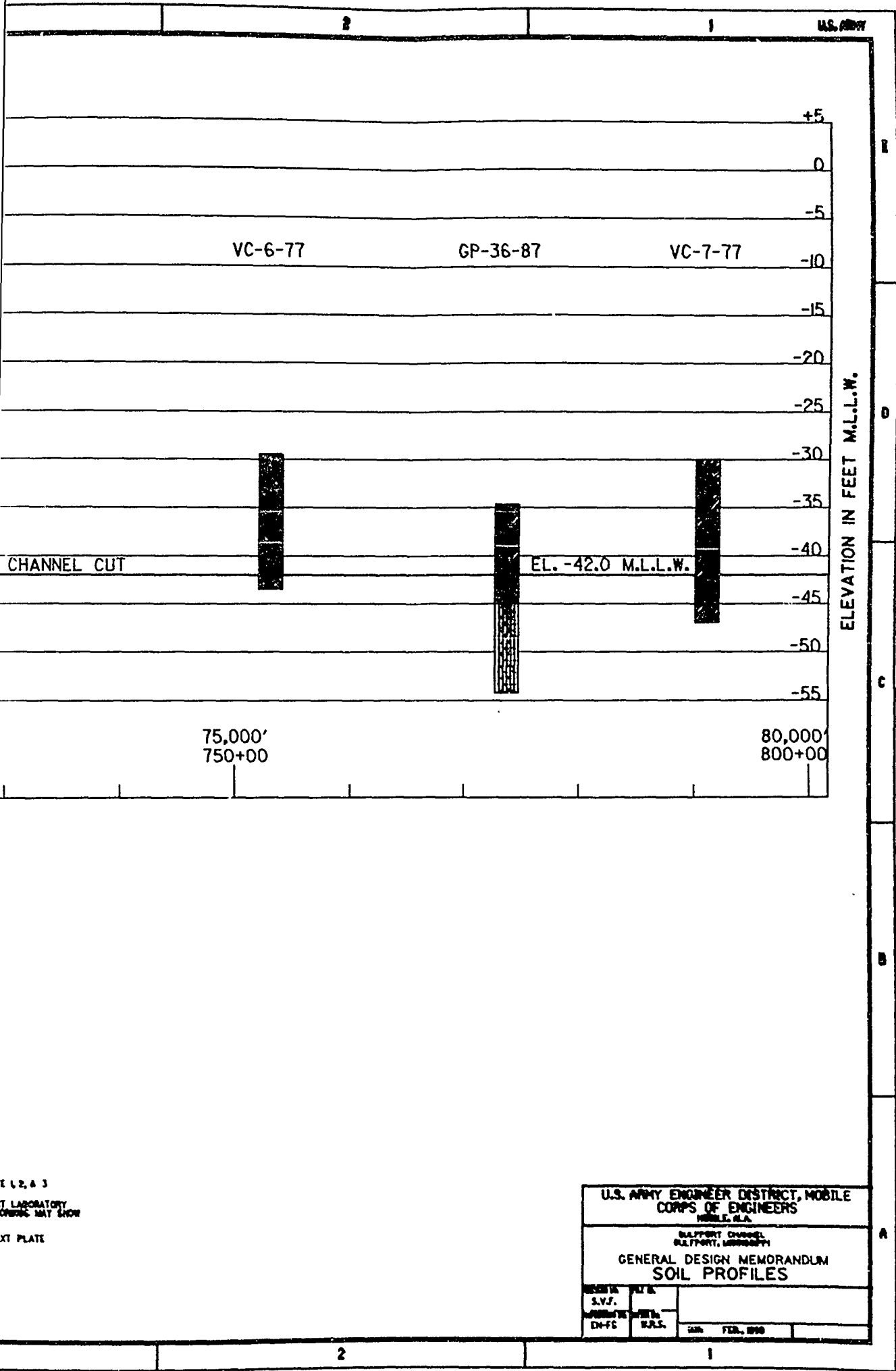
U.S. ARMY ENGINEER DISTRICT, MOBILE			
CORPS OF ENGINEERS			
MOBILE, ALA.			
SUPPORT CHANNEL			
SUPPORT, MISSISSIPPI			
GENERAL DESIGN MEMORANDUM			
SOIL PROFILES			
DATE 8-75	BY S.V.F.	DATE 8-75	BY S.V.F.
APP. 1000		APP. 1000	



- LEGEND**
- | | |
|--|--|
| CH ORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS | ML ORGANIC SILTS AND VERY FINE SANDS, MUCK FLOUR, SANDY SILTS OR CLAYEY SILTS OR CLAYEY SILTS WITH SLIGHT PLASTICITY |
| SP POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES | CL ORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS |
| SM SILTY SANDS, SAND-SILT MIXTURES | |
| SC CLAYEY SANDS, SAND-CLAY MIXTURES | |

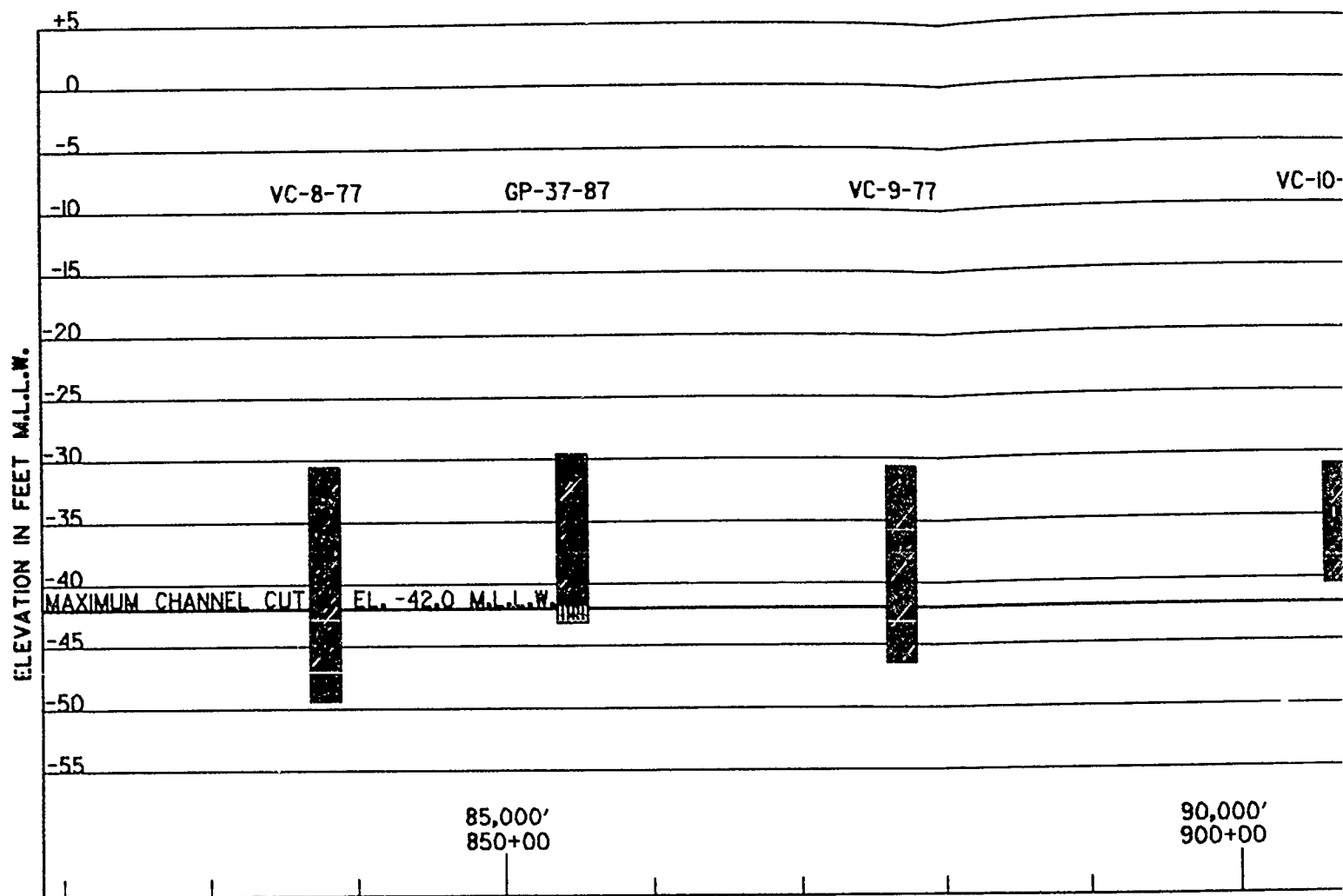
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|--|
| DL ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY |
| OH ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS |

- NOTES**
- 1 SEE BORING LAYOUT PLATE 1, 2, & 3
 - 2 SOIL BORING LOGS REFLECT LABORATORY CLASSIFICATION. OTHER BORINGS MAY SHOW FIELD CLASSIFICATION.
 - 3 PROFILE CONTINUES ON NEXT PLATE



ATE 1, 2, & 3
 ECT LABORATORY
 BORINGS MAY SHOW
 NEXT PLATE

U.S. ARMY ENGINEER DISTRICT, MOBILE CORPS OF ENGINEERS MOBILE, ALA.			
BULFORD CHANNEL BULFORD, MISSISSIPPI			
GENERAL DESIGN MEMORANDUM SOIL PROFILES			
DESIGN S.V.F.	BY S.V.F.	DATE FEB. 1950	
EN-FC	S.R.S.		

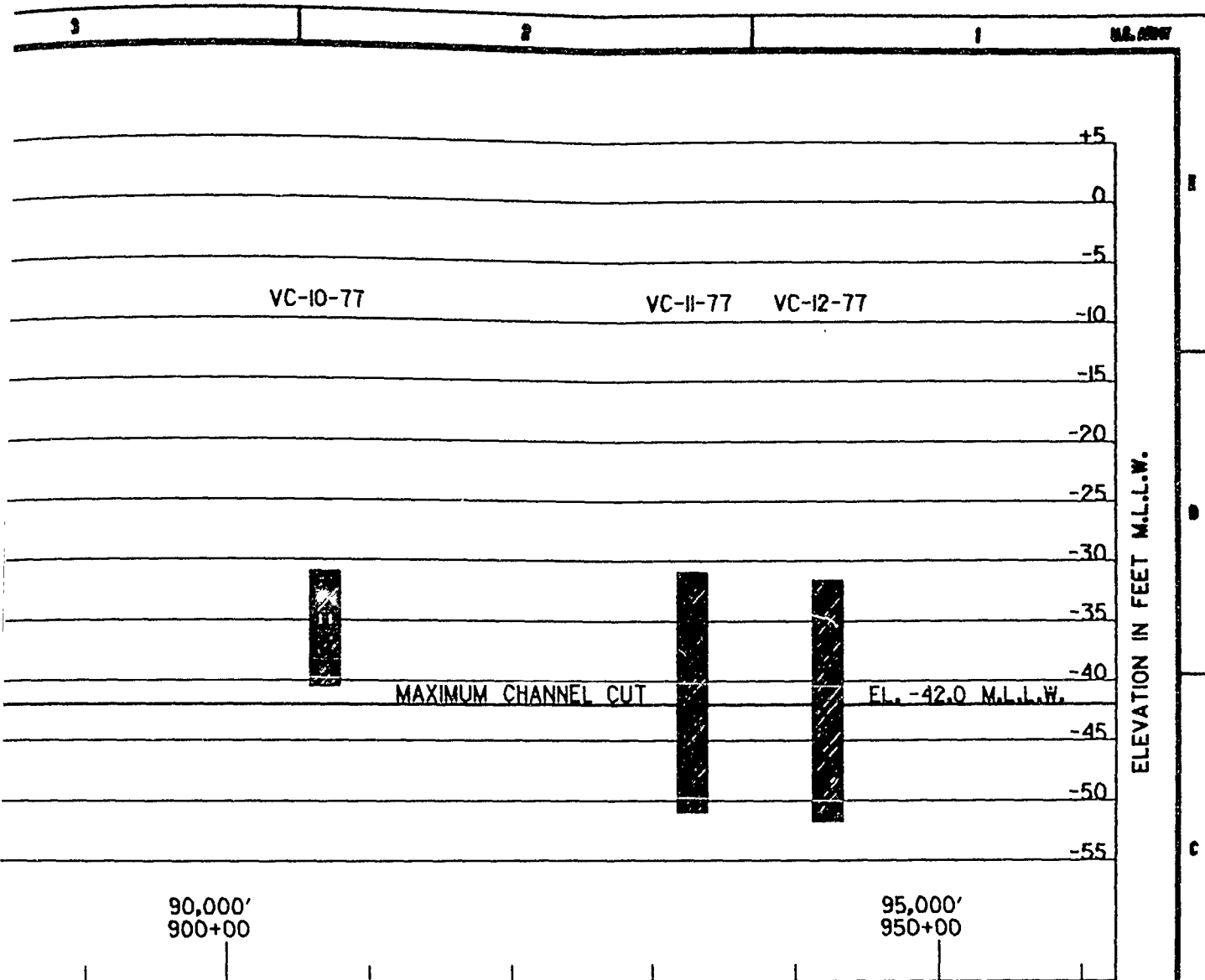


LEGEND

- | | |
|--|--|
| CH ORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS | ML INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SANDY SILTS OR CLAYEY SILTS ON CLAYEY SILTS WITH SLIGHT PLASTICITY |
| SP POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES | CL ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY |
| SM SILTY SANDS, SAND-SILT MIXTURES | CH ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS |
| SC CLAYEY SANDS, SAND-CLAY MIXTURES | CL INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS |

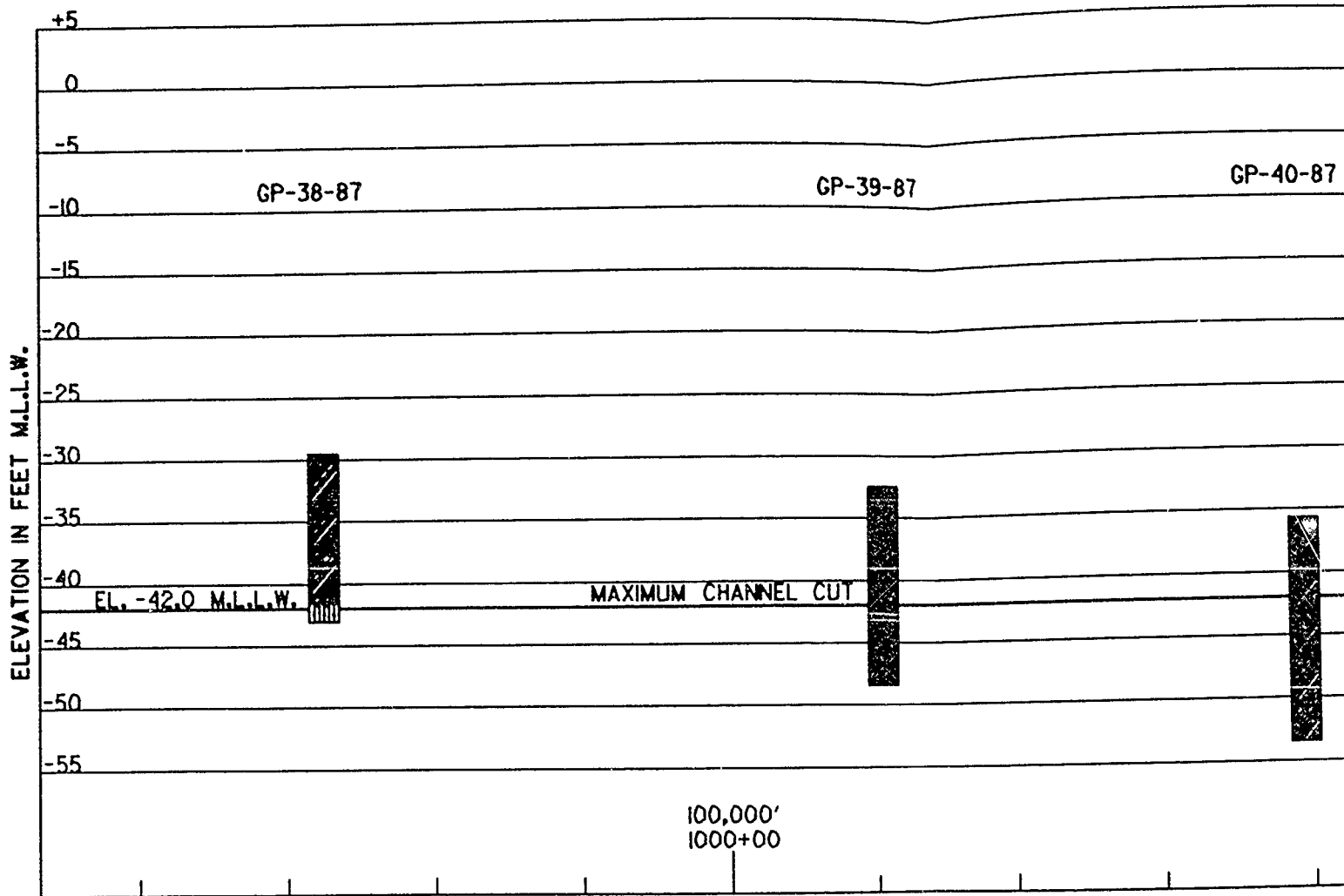
NOTES

- 1 SEE BORING LAYOUT PLATE 1, 2, & 3
- 2 1ST BORING LOGS REFLECT LABORATORY CLASSIFICATION; OTHER BORINGS MAY SHOW FIELD CLASSIFICATIONS.
- 3 PROFILE CONTINUES ON NEXT PLATE



NOTES
BORING LAYOUT PLATE 1, 2, & 3
BORING LOGS REFLECT LABORATORY
OPERATIONS. OTHER BORINGS MAY SHOW
VARIABLE ELEVATIONS.
FILE CONTAINS ON NEXT PLATE

U.S. ARMY ENGINEER DISTRICT, MOBILE CORPS OF ENGINEERS MOBILE, ALA.			
SUPPORT CHANNEL SULPHUR, MISSISSIPPI			
GENERAL DESIGN MEMORANDUM SOIL PROFILES			
DATE S.V.J.	BY M.E.		
REVISION EN-73	DATE O.A.S.		
		NO.	FEB. 1988



LEGEND

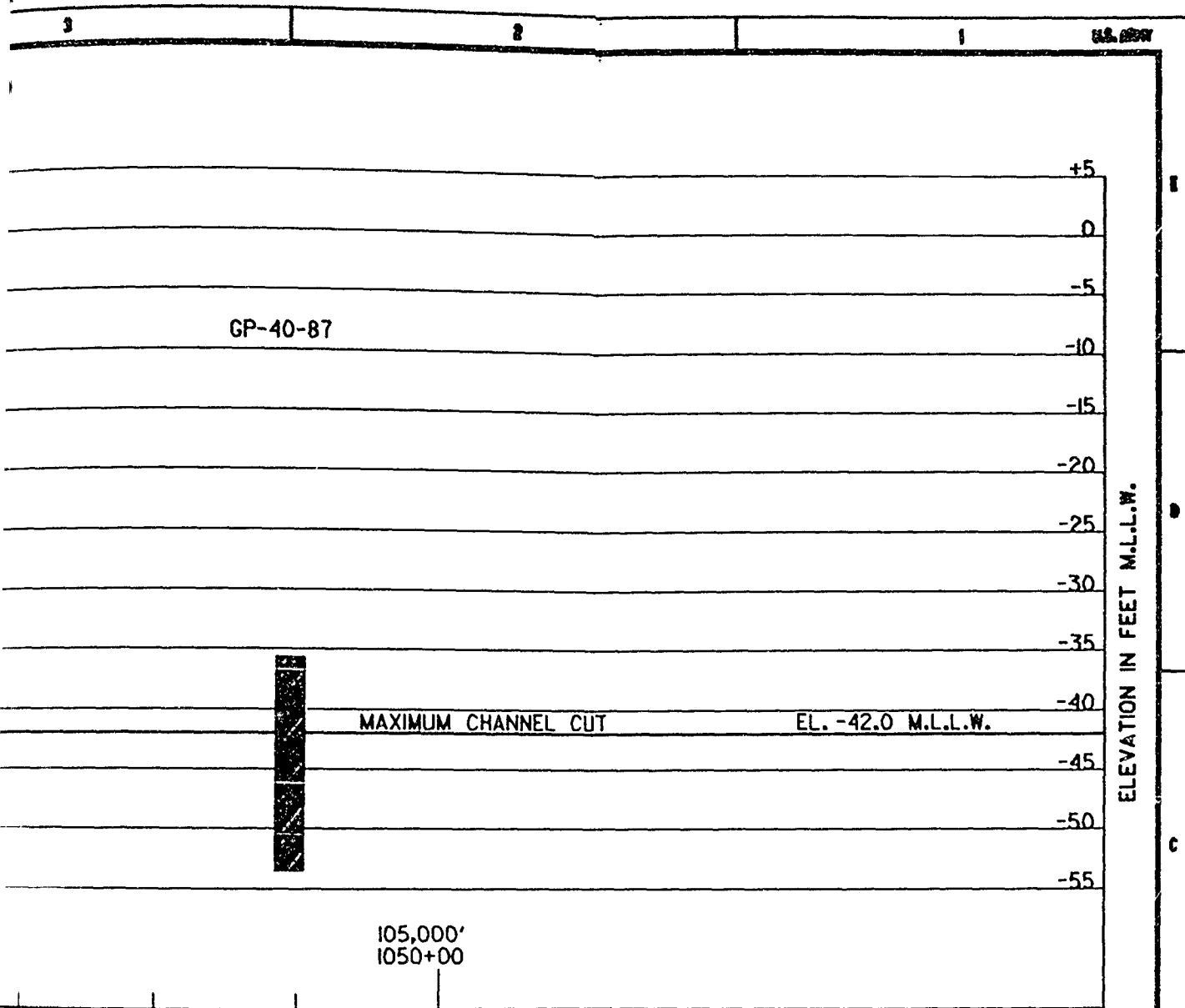
- CH NONORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
- SP POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES
- SM SILTY SANDS, SAND-SILT MIXTURES
- SC CLAYEY SANDS, SAND-CLAY MIXTURES

- ML NONORGANIC SILTS AND VERY FINE SANDS, MUCK FLOES, SANDY SILTS OR CLAYEY SILTS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
- CL NONORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS

- OL ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY
- OH ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS

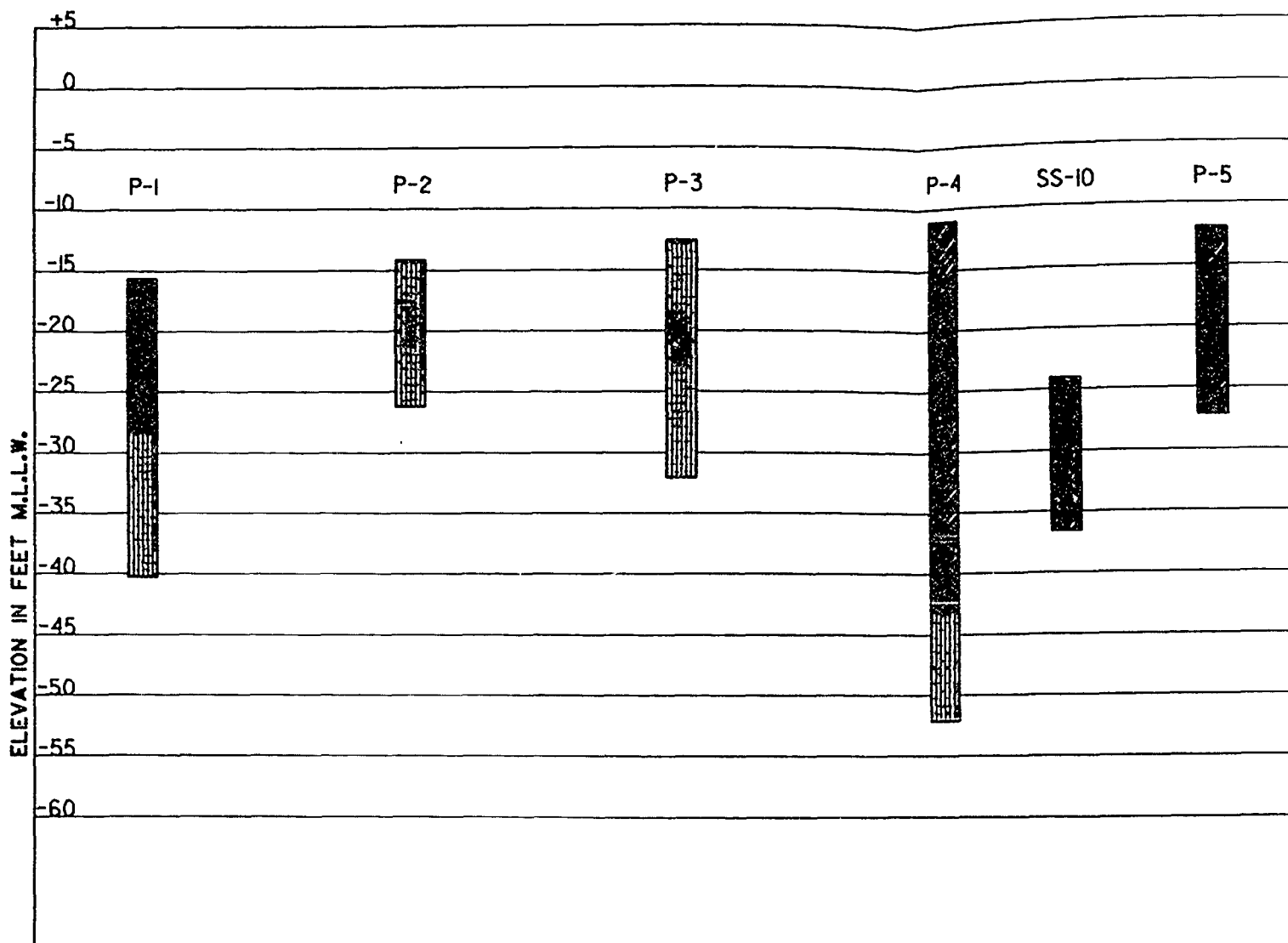
NOTES

- 1) SEE BORING LAYOUT PLATE L 2, A 3
- 2) HST BORING LOGS REFLECT LABORATORY CLASSIFICATIONS. OTHER BORINGS MAY SHOW FIELD CLASSIFICATIONS.
- 3) PROFILE CONTINUES ON NEXT PLATE



NOTE
 DRWG LAYOUT PLATE 1, 2, & 3
 OTHER LINES REFLECT LABORATORY
 TESTS. OTHER BORINGS MAY SHOW
 DIFFERENT RESULTS.
 E CONTINUES ON NEXT PLATE

U.S. ARMY ENGINEER DISTRICT, MOBILE CORPS OF ENGINEERS MOBILE, ALA.			
SUPPORT CHANNEL SUPPORT, MISSISSIPPI			
GENERAL DESIGN MEMORANDUM SOIL PROFILES			
DESIGNED BY S.V.J.	CHECKED BY W.A.S.	DATE DEC 15, 1950	BY FEB. 1950



LEGEND

- | | | | |
|----|--|----|--|
| CH | ORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS | ML | ORGANIC SILTS AND VERY FINE SANDS, BLACK FLOES, SANDY SILTS OR CLAYEY SILTS OR CLAYEY SILTS WITH SLIGHT PLASTICITY |
| SP | POORLY BLENDED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES | CL | ORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS |
| SM | SILTY SANDS, SAND-SILT MIXTURES | | |
| SC | CLAYEY SANDS, SAND-CLAY MIXTURES | | |

NOTES

- 1 SEE BORROW LAYOUT PLATE 1, 2, & 3
2 DO NOT BORROW LOGS REFLECT LABORATORY CLASSIFICATION, OTHER BORROWS MAY SHOW FIELD CLASSIFICATION.

